

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

APRIL 15, 1961

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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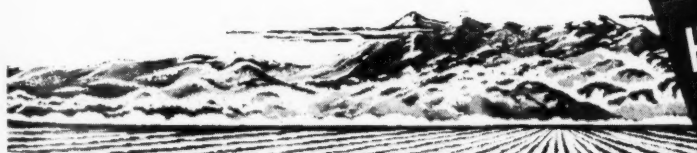
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Editorial

CONSUMER SURVEYS

Much interest has already been apparent from readers concerning the consumer surveys being undertaken with regard to nursery stock, particularly woody ornamentals, through staff members of the land grant colleges. Preliminary report of that in the northeast region was summarized in the March 15 issue of this magazine. Since has been received a report from the southeastern region from the University of Georgia college of agriculture.

While the purpose was much the same in both projects, an economic analysis of consumer purchases and preferences, the two were carried out differently, that in the northeast including surveys of homeowners through 12 states from Maine down to West Virginia, while the southern inquiry was concentrated in the city of Athens, the site of the university, where the number of recent home developments made possible comparison of the landscaping of new homes in various types of subdivisions and also with settled areas of the city.

As those who read the March 15 issue are aware, a most striking fact is the small proportion of homeowners who purchase nursery stock, particularly after the first year of ownership, and even more, the extremely small expenditure in proportion to income.

It was shown in the northeastern survey that the annual expenditure for nursery stock ranged from \$6 by families having an income under \$2,000 up to \$43 for those having an income of over \$10,000, the average of all being only \$30 per family. If one compares such figures with what a housewife spends on a single visit to a department store, a clothing store or other emporium, it is obvious that the nurseryman and garden store operator is low man on the totem pole.

When one faces that one cold

The Mirror of the Trade

fact, there seems less importance whether the local nurseryman or garden center obtained 50 or 75 per cent of the local expenditure for nursery stock, in comparison with chain store, mail-order house, canvassers or other sources. If the average expenditure for nursery stock per family were to be increased only \$10 or \$20 a year, the industry would face a bigger boom than that engendered by the housing developments of the past decade.

The manner in which the annual expenditure can be increased was indirectly shown by the surveys, also. Queries of homeowners revealed that they relied on nurserymen and garden shop operators most largely, not only for their purchases, but also for information and for guidance in the selection of plants.

Asked how nurserymen could improve their selling of plants and services, more persons replied that greater information was needed than referred to lower prices, good stock and all the rest of the sales reasons.

This revelation of consumer surveys points up the assertion, frequently made by trade leaders in the past, that nurserymen should use every possible means to enlarge the public's knowledge about plants, their characteristics and their uses. No other industry which obtains so much income from the public, however small per family, uses advertising, publicity and other forms of enlightening and educating the public so little as do nurserymen. This fact is obvious to anyone who scans the newspapers, magazines and mail received by homeowners, poor or rich, bad prospects or good, customers or not.

The adage is most applicable to this field: The more you tell, the better you sell. If we can help the public learn more about plants, their value and uses through every available channel, our sales will multiply.

SELECTIVE SELLING

In expressing the results of the study, the southeastern consumer survey mentioned above indicated areas to be emphasized by nurserymen in their selling.

Most homes are landscaped without any predetermined plan. If nurserymen, particularly those with experience and training in landscape work, would attempt to

change this pattern, and if the industry would more than ever emphasize the importance of planning, as is done to some extent in the publicity now provided, a great expansion might be made in homeowners' interest in plants and in the size of sales. Even the more expensive homes, the study reported, were usually landscaped without a plan.

Since the owners of the more expensive homes, about 20 per cent of the total number, purchase 60 per cent of the shrubbery bought by homeowners, this particular audi-

[Concluded on page 77]

NEMATODES

In recent years the probable necessity of soil treatment on account of harmful nematodes has come to the attention of more nurserymen than before. This has proved true even in states where the soil was frozen deeply enough in winter to rid it, presumably, of harmful soil and root-infesting organisms. One prominent nurseryman in a state bordering on Canada asserted his fields contained no nematodes, but nevertheless later wondered if it were true when experimental soil treatment was followed by better growth on stock in the field treated, although, of course, soil fumigation generally is stimulating to plant growth in itself.

Besides being the subject of a special conference earlier at Washington, D. C., nematodes were one of the principal topics of discussion at the conference on interstate regulatory relations held by the A. A. N. at Chicago last fall, where it was deplored that there are available too few nematologists to provide advice for the state regulatory services which would employ them, let alone the nursery industry at large.

So readers, whether in states where nematodes are known or not, will find both timely and valuable the article in this issue prepared for them by one of the foremost authorities on nematodes and their control. As he clearly states, the subject is not one to be viewed with alarm, but one to be studied by the individual nurseryman in relation to his own crops and growing conditions. This may be done with a view to preventing hardship or losses where nematodes are known to be present, or with a view to producing better nursery stock in any event.

Nematodes—Thieves in the Soil

By R. H. Gruenhagen

Professor of Plant Pathology, Virginia Polytechnic Institute, Blacksburg, Va.

It is well recognized that the ornamental nursery industry may at times be somewhat of a gamble, and calculated risks are frequently involved. A number of the problems which may beset a nurseryman are well known and may have satisfactory solutions available. However, there are certain other problems which are not so well recognized but which may have a profound influence on the efficiency and success of a nursery operation.

As the general fund of knowledge is increasing, the feeling is becoming more firmly established that nematode attack has a severe impact on the growth of ornamental plants. Although there is still much to be learned about this broad subject, enough evidence has already been accumulated to demonstrate that nematodes either are or have the potential of being one of the nurseryman's most serious problems. No attempt is being made to be alarming, mysterious or spectacular. This discussion is in response to many requests for information regarding a hitherto little-recognized problem.

Nematodes Exist World Wide

Before any deeper discussion of the nematode problem and its impact upon the production of ornamental plants is made, the nematode itself will be discussed briefly. Nema-

todes are unsegmented eelworms, which are not closely related to any other form of life. They are found all over the world in soil, fresh and salt water and in or on plants and animals. Over 20,000 different kinds of nematodes are known, but fortunately only a few hundred of these attack living plants. This implies that most nematodes, as well as most fungi and bacteria, are harmless and, in fact, may be beneficial in breaking down dead organic matter and returning it to the soil as nutrient elements. The forms which live only on dead plant and animal material are known as saprophytes. Nurserymen are primarily interested in the parasites, which exist only on living material.

Although nematodes have no doubt always existed, it has been only in the past 20 years or so that their true impact and significance has been recognized. Research is continually uncovering facts regarding new kinds of nematodes and new host plants which they attack. It is quite possible that the full significance of the problem is still not appreciated.

Historical writings refer to "tired, sick" or "worn-out" soils which no longer would produce a thrifty crop. It is quite possible that nematodes were actually to blame. The association of nematodes with plant disease



Fig. 1—Severe root-knot infection on *Ilex crenata helleri*.

was first demonstrated by Roffredi in 1775, when he showed that nematodes were responsible for a disease of wheat in England. Root knot, which is today perhaps our most widely recognized nematode disease, was first discovered in England in 1855. Although root knot was known to cause damage on economic crops in this country prior to 1900, little attention was paid to the problem for the first quarter of the 20th century. During the period 1925 to 1950 the United States Department of Agriculture supported a small nematology program, but the work did not gain any great impetus until after 1950.

Root-Knot Nematode

Plant parasitic nematodes may be categorized as endoparasites, which live and feed inside root tissue, and ectoparasites, which live outside of the root tissue but get their food from inside by means of a hollow spearlike device called a stylet. The most widely recognized endoparasitic form is the root-knot nematode, the feeding activities of which promote a distinct enlargement of root cells, as well as an excessive development of new cells. Both of these responses result in the formation of galls or knots on the affected plant roots. This derangement of cells upsets the normal functioning of the affected root. The flow of food and water is

[Continued on page 112]

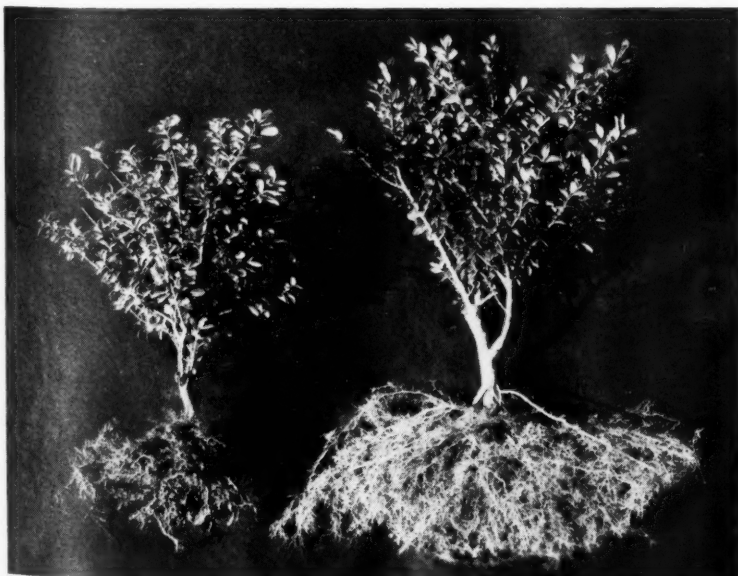


Fig. 2—Japanese Holly from Untreated (Left) and Treated Soil

Minnesota Course Stresses Garden Shop Management

By C. Gustav Hard

A full day of training for garden center operators, stressing business and management problems rather than products and recommendations, was presented March 7 by the University of Minnesota at its campus at St. Paul. This was the second short course to be held in the state for the purpose of helping the garden store industry do a better job of selling and handling nursery and allied products. Though the total enrollment of 177 garden store operators was below the 1960 level, it was felt that more businesses were represented this year.

Inventory control, one of the most popular topics on the program, was discussed by Harold Wallace, University of Minnesota. A simple inventory control system, he said, provides the manager with essential purchasing information, indicating when to buy, what to buy and how much to buy. In addition, it can help the manager (1) know his customers' buying habits, (2) know his business and improve profits, (3) know the fast and slow-moving items on the shelves and (4) recognize trends in his business.

Inventory control also has several indirect benefits. It can reduce or limit inventory investment, allowing more capital to remain in the bank and gather interest. Savings on personal property tax can be realized if the inventory is held down during

assessment periods, and stock purchases distributed over the year can result in insurance savings. Avoiding excess stock also leaves more space available for the selling area, an important consideration in the garden center.

By pointing out which items move fast and which move slow, inventory control can assure the business a well-assorted stock of the right quantity. Volume of stock is not so significant in success as a judicious selection that meets the customers' wants.

Salesmanship

Paul Cashman, professor of rhetoric, discussed the barriers which often exist between the salesman and the customer and offered suggestions for overcoming them. First and commonest is the status barrier. Do not imply that your knowledge supersedes that of the customer. Do not make the customer feel uneasy or inferior.

A listening barrier is common with most people. As a rule, a customer will retain 25 per cent of what he hears at the end of 48 hours. Besides, he will add to this his own interpretation. Very often, he hears only what he wants to hear. Emphasize the points you want a customer to remember.

Customers usually have faulty memories. This poses the problem

of the memory barrier. After two months, a customer may remember only about 10 to 15 per cent of the information he was given. Provide written instructions or ask him to call for information.

Frequently a customer builds a guilt barrier; he feels he is spending too much money. Show him how he is saving money or sell the value and usefulness of the product.

Do not complicate sales procedure. This brings into being the so-called red tape barrier. Group like things together in the sales area. Have allied materials where they can be easily found. Keep tie-in sales items simple and understandable.

Mr. Cashman concluded by citing three points a salesman should keep in mind: (1) Be aware of the barriers that may exist, (2) create a real sense of involvement with the customer and (3) make a strong suggestion of action.

Garden store operators have nearly 41 million persons as potential customers in 1961. This gardening public will spend approximately \$4 billion at garden centers. To do an effective job of merchandising, garden center managers should know some of the characteristics of this market.

Activities Create Demand

The trend to suburban living is strong and implies the homeowner's participation in all the activities associated with that way of life. Therefore, supplies for gardening, barbecuing, lawn sports and patio entertaining and children's play equipment are in demand.

There is still a spirit of keeping up with the Joneses, and an appeal to this spirit is frequently used as an

[Continued on page 83]



GOOD-WILL CAMELLIA GIFT

In a floral "hands across the sea" salute, the city of Kyoto, Japan, presented the California spring garden and home show at Oakland with 100 choice sasanqua camellia plants grown in the Orient. The plants were sent to A. Hubbard Moffitt, Jr., garden show president, through the Japanese consul general at San Francisco.

Participants in the camellia presentation and planting ceremonies held in the Oriental Garden of Oakland's Lakeside park are shown in the illustration at the left: Left to right, Mrs. David Iino, Oakland leader in Japanese-American affairs; John I. Hennessy, secretary-manager of the flower show; A. Hubbard Moffitt, Jr., and Frank H. Ogawa, Oakland grower-member of the California Association of Nurserymen, representing the consulate.

Mr. Moffitt explained that the plant gift was in reciprocity for the choice begonia tubers which the garden show management sent to Kyoto's Mayor Gizo Takayama last year as a symbol of the Oriental motif which dominated the 1960 exhibition. The California-grown tubers were prize specimens from the nursery of Pat Antonelli, Santa Cruz.

First blooms from the camellia plants are expected to be produced this fall. Photographs of the overseas plants in their new setting, however, will be shown at the coming flower show, scheduled for April 22 to 30.

G. K. A.

First Garden Center Course in Iowa

Subjects Include Store Layout and Design, Advertising and Stock Selection

By John P. Mahlstede

Fourteen speakers covered subjects ranging from store layout and design, through advertising and sales training to stock selection at Iowa State University's first short course for garden store operators, held March 17 at Ames, Ia.

With an attendance of 100 persons, the morning sessions were opened by Prof. Robert Dyas, of the landscape architecture staff of the university, who discussed garden center design. Professor Dyas pointed out that the whole center should have unity and express the functions and ideals of the firm. Each operation should be distinctive in order to create in the minds of the buying public an impression of just what the business stands for and the type of product it is handling. He suggested that the store should harmonize with the section of the city or town in which it is situated. Its arrangement on the property should be such that the structure may be recognized readily from the street or highway as a garden center. Access and parking should be apparent, ample and convenient for use. In general, most garden centers are designed much along residential

lines, which is probably most appropriate, since most customers are purchasing for their residences and this atmosphere is "homey." Professor Dyas pointed out that a convenient circulation pattern, carrying customers easily through all sales and display areas, is essential.

Make Browser a Buyer

He emphasized the importance of making the customer feel at home, which often makes the browser a buyer. Well-organized facilities are conducive to well-organized, efficient activities for all concerned. In the same vein he emphasized the need for neatness and orderliness. The work and service areas should be as well organized and as convenient as the rest of the garden center, even though the materials and activities need not be obvious to the customers. In planning his layout, the garden store operator should allow plenty of elbow room for all departments, which will permit expansion when the time comes.

Professor Dyas concluded his talk by presenting a schematic plan of the facilities of a typical Iowa garden center, which was based on in-

formation he had received from questions circulated earlier in the year.

Donald B. White, of the horticulture staff, then discussed the appearance of the store. By use of colored slides he emphasized the point that a garden center should look like a garden center. Liberal use of plant materials helps highlight the product the business is merchandising and shows the customer what it can do for him to help make his home a pleasanter place in which to live.

Advertising Program

The second panel discussion of the morning featured advertising and the preparation of copy for the garden center. Prof. W. R. Kuerth, technical journalism department, Iowa State, suggested that the first step in the development of an advertising program is to determine just how much and what type of business the firm should be doing. With this information, the operator can get a good idea of the dollar volume potential in his trade area by multiplying the per-family expenditures in the categories of mer-

[Continued on page 130]

CLIMATRON AT ST. LOUIS

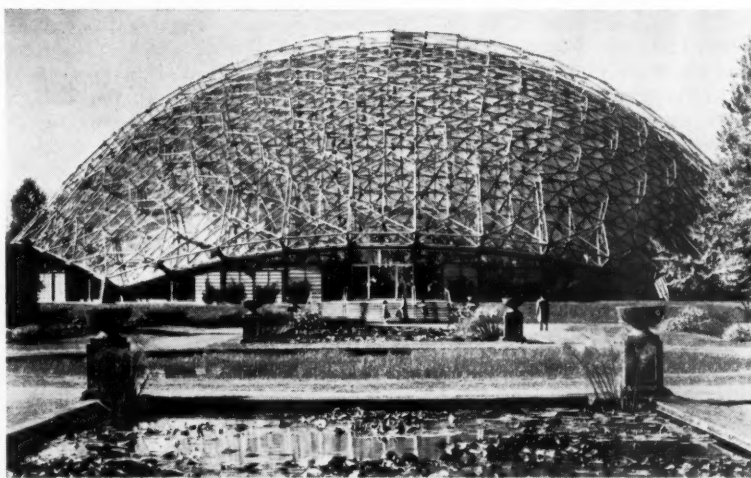
The Climatron, the first fully climate-controlled display greenhouse in the world, was opened to the public last autumn at the Missouri Botanical Garden, St. Louis.

Under construction for more than one year, the \$700,000 Climatron—so termed by the garden director, Dr. Frits W. Went, because of the unusual degree to which climate control is possible—houses a part of the extensive Shaw collection of tropical and semitropical trees, flowers and plants, many of which were recently acquired for the new facility.

A tropical lily pool, featuring a plexiglass tunnel for visitors, will contain fish and other aquatic life aside from the world-famous Shaw's Garden hybrid water lilies and other plants. An 8-foot "mountain" inside the dome is planted with coffee trees and other plants suited to cooler, drier parts of the tropics, and a few feet away a hot, moist bog contains a profusion of plants found in such areas. Many other kinds of tropical environments and vegetation are displayed.

A particularly noteworthy feature of the new greenhouse is that scientific experiments, under the direction of Shaw's Garden scientists, take place in the Climatron and are a part of its public displays.

The Climatron's unique climate control system is a direct outgrowth of the



Climatron at the Missouri Botanical Garden, St. Louis

Phytotron, a laboratory greenhouse based on principles of environmental control formulated by Dr. Went.

Surrounding the perimeter of the Climatron are 120 lamps of 1,000 watts each which are turned on at night providing spectacular effects, both inside and outside the structure. A revolving lighting system suspended from the dome apex is used at night to illuminate the

displays with a simulated effect of tropical sun and moon.

Conceived and designed by Dr. Went, the sun and moon lighting system was executed under his direction by the Missouri Botanical Garden's technical staff and the shops of Washington University after contractors approached on the matter said that costs would be prohibitively high.

Trade Members Survey Winter Damage

Snow Cover a Factor in Injury Pattern; Broad-Leaved Evergreens Hardest Hit

Correspondence from trade members in the eastern part of the United States has given some prominence to indications of unusual winter damage to various lines of nursery stock. This subject was discussed by E. Sam Hemming, in the feature, "This Business of Ours," in the April 1 issue of this magazine. Supplementing his remarks are the following, which were sought by this publication from trade members to help clarify the picture of conditions.

From these reports it becomes apparent that presence or absence of adequate snow in a severely cold winter played an important part. Broad-leaved evergreens, as might be expected, suffered more than other items, but yews and wax privet were also affected in several areas. Deciduous items, generally, were not involved.

Views from New England

H. Verkade, Verkade's Nursery, Inc., New London, Conn., writes: "We had considerable winter damage on the larger plants of *Pieris japonica* and *ilex* varieties, but *Pieris floribunda*, *leucothoe* and *rhododendron* came through in good shape. None of the lining-out sizes in the foregoing items were hurt.

"We have damage in *Taxus hatfieldi*, *Halloran*, *Moon's columnaris* and *nigra*, but none of the spreading types or *capitata* were hurt. No lining-out stock was damaged; even those plants transplanted last fall came through in good shape.

"All junipers and *chamaecyparis* came through in good shape. All trees and shrubs survived the winter in good condition, except for some damage by mice and rabbits.

"We did considerable transplanting last October and November and have not noticed any severe losses so far."

Clifford Corliss, Corliss Bros. Inc., Gloucester, Mass., notes the winter damage to stock in his nursery, in many other nurseries in the area and at private homes as follows:

"*Rhododendrons*—*Catawbas*, hybrids and *Carolinas*—had severe winter burn, so that most of them will not be salable this season. The same holds for *Pieris japonica*, *Pieris floribunda*, *kalmia*, *leucothoe* and *ilex*. Some of the needle evergreens, including hemlocks, and some of the *taxus*, *arborvitae* and *cypress* show

some burn. Others seem to have done fairly well. There was some damage to shrubs, a few types of which show die-back above the snow line. Most of the trees seem to be O. K."

Long Island Data

Robert H. Brewster, Suffolk county extension service, Riverhead, L. I., describes winter damage to plants, both from burning and snow weight, in the following report:

"Perhaps the plant worst affected was wintergreen barberry (*Berberis julianae*). More costly damage was done to the Atlas cedar (*Cedrus atlantica*) which was badly burned, and to various forms of holly. Again, this year the worst injured item was the convex-leaved Japanese holly (*Ilex crenata convexa*) which local nurserymen call *Ilex bullata*; *Ilex latifolia* was also burned. *Rhododendrons* were hard hit, as were small azaleas and *andromedas* in beds without shade. Japanese black pine had burned tips, and hemlocks were wind burned.

"This year, the Suffolk county extension service has had no report of damage to white pine blocks, though these were damaged a year ago.

"Because of heavy snow, Japanese black pine, *cypress*, *arborvitae* and hemlock were severely injured by breakage. Branches of hemlock were literally ripped out of their sockets at the trunk. Yews were particularly hard hit, especially *Taxus media hicksii*. Because this yew is often structurally weak, it should be trained to a single stem and sheared to a point in nursery blocks.

"It is too early to tell whether nursery plants of questionable hardiness in this zone have survived. Trees like *Albizia julibrissin*, or silk tree, sometimes called *mimosa*, when scratched, show a bark still green, but it is too early for them to show signs of popping buds.

"Normally, by St. Patrick's day, Long Island nurserymen are digging to fill early spring orders, but a week later this year there are still freezing nights. This year spring is expected to be delayed about two weeks at least.

"Rabbit and deer damage has been spotty again this year, but where the animals did attack, the damage was severe. Two nurseries reported that the snow was too deep to permit deer or rabbit damage. Three nurseries

reported severe damage; one in a town where the population is over 1,000 persons per square mile reported killing over 20 rabbits and still having severe damage to crab apple, *pyracantha* and *magnolias*. Where the deer damage was severe it was confined mainly to dogwood.

"Suppliers who visit many nurserymen on the east coast report that the severest winter injury was in south New Jersey nurseries this winter."

New Jersey Damage Survey

From Red Bank, N. J., James S. Wells, James S. Wells Nursery, Inc., writes as follows on plant conditions resulting from the past severe winter:

"There is no doubt that winter damage was widespread and serious in this area, and from conversations with other growers and with my customers I gather that this condition exists over the whole eastern area, from Virginia to Massachusetts.

"We noticed the first damage immediately after the first snow storm in mid-December, for we had only a light snow covering and cold temperatures with bright, windy days. This weather burned almost everything to some degree. Later weather simply added to the problem.

"Several points of interest emerge from the conditions as I now see them:

"Damage was patchy, being most severe where plants were open and exposed. Even the lightest amount of side or top protection greatly reduced the damage. For instance, the first plant in a row would be damaged severely, but the one immediately adjacent to it was much less injured, and so on down the row. Where plants were covered with a lath shade almost no damage is to be found.

"Damage is not confined to broad-leaved evergreens, but extends to *taxus*, junipers, hemlock and similar material.

"Use of Wilt-Pruf for winter protection on *rhododendrons* and *ilex* had no effect.

"On *rhododendrons*, plants which had been lightly fed late in the fall and had foliage of a good, dark green suffered much less than those which were not fed and had foliage of a lighter green color.

"Flower buds on *rhododendrons*
[Continued on page 68]

Practical Weed Control in the Nursery

By S. K. Ries

Department of Horticulture, Michigan State University, East Lansing, Mich.

Many nurserymen are afraid of chemical weed control; others simply do not think it will do the job. Probably most of them do not believe that chemical weed control is important enough for them to spend their time learning about it. Some principles and thoughts which might help develop a nursery weed control program follow:

Know your plant material and its tolerance to the various chemicals. Know the chemicals being used. The best way to learn about the chemical is to read the label. It pays to be familiar with the weeds prevalent in the area, since certain chemicals do not control various species of weeds.

Soil Conditions Are a Factor

In general, all herbicides applied to the soil work much better under moist soil conditions than dry conditions. It often pays to irrigate after applying some herbicides, if it is convenient. The higher recommended rates should be applied to heavy soils, such as clays and clay loams. The lowest rates should be used on light sandy soils.

Herbicides must be applied at the recommended rate. This has been a problem for several nurserymen, because they have not used the proper equipment or have not calibrated their sprayers. Herbicides must be applied in nurseries at pressures of 20 to 60 P.S.I. and at 20 to 60 gallons per acre. Almost any sprayer available can be adjusted to do this job.

Of course, all weed sprays should

be put on with flat fan nozzles. This is the only type which will supply material accurately. Fifty-mesh screens should also be used in the pumps, boom and nozzles.

Granular formulations of herbicides are one of the most interesting developments in the weed control business. The future for granulars looks promising, but the development of more accurate distributors is a must. The development of an accurate granular distributor, working on the principle of the Cyclone seeder, would be helpful in tall nursery plantings.

Outlines Program

What is a good weed control program for nurserymen? First of all, no transplanting should be done into a field where there are perennial weeds. Quack grass should be controlled the year before transplanting by using dalapon in the spring or fall. Certain noxious perennial weeds, such as thistles, horse nettle, milkweed and poison ivy, can be eliminated by spot treatments with amino triazole. Certainly, if perennial weeds are much of a problem, it may pay to take the field out of production for one year to make sure the job is done right.

Transplant beds and mulching materials should be fumigated the season before they are used, so that there is no danger from harmful residues. Methyl bromide (MC-2) is the most effective and safe fumigant, but it takes more time to apply. Vapam, Mylone and allyl alcohol

are also recommended for the job, but one must become familiar with each before using it on large areas.

Lining-out stock and established nursery blocks are the areas where one can probably save the most money.

Simazine is effective if it is used properly and only on tolerant nursery species. CIPC is also effective for control of purslane in the late summer and chickweed in the fall and spring. Neburon does a good job if used properly.

If one is concerned about the cost or believes it is necessary to cultivate, he should apply only a band near the base of the plant. It must be remembered, however, that the rate per acre should be based on the area actually sprayed.

Removing established annual and perennial weeds in nursery blocks is still a problem, but there are some promising chemicals and practices available. I have found that early application of three to six pounds per acre of active Simazine on quack grass as soon as it has started new growth is effective in killing the quack grass and controlling annuals.

The addition of amino triazole at one or two pounds per acre increased the effectiveness of the chemical on established perennial and annual weeds. No injury to nursery stock occurred during the first year of these tests, but further studies must be made under different conditions before these practices can be recommended.

Regardless of the chemical or method of use, many problems with the culture of nursery stock have resulted. It now has become apparent that every nurseryman using weed killers effectively will have to change some of his cultural practices and also ask himself some questions.

Some cultural changes may be required as follows: Blocks of resistant species should be planted so that susceptible species will not be endangered by spraying. Higher-growing species must be planted separately or staggered in rows with shorter stock, so that spraying may be done more efficiently. Under soil conditions that require a cover crop between the rows, corn, which is tolerant to Simazine, can be grown

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Spraying Herbicide with a Single Nozzle Adjusted To Spray Four Rows of Ornamentals

Tips for Better Landscapes

Vines for Home Entrances—Part II

By Clarence E. Lewis

Department of Horticulture, Michigan State University, East Lansing, Mich.

Vines can make interesting patterns on a wall. This is a landscape feature that many people do not realize or take the time to think about. There are all kinds of impressions created by a simple deciduous vine, like Boston ivy, or its variety Low's ivy. Certainly, direction is evident in the lines of the stems of the Japanese creeper or Boston ivy (*Parthenocissus tricuspidata*) shown in illustration A.

A closer look at this vine, provided by illustration B, reveals the interesting contrasts made by the naked stems and the grapelike fruit against the brick.

During the winter period, vines can be pruned to obtain the lines that one wishes. Large open areas, small openings in the branching network, primarily main or larger branches or a dominance of feeler branches can be retained to give direction, or describe figures that may be almost contemporary in their nature. This kind of treatment is useful when a walk parallels the wall. Such is the case in illustration A.

Gives Feeling of Motion

I was attracted to the vine shown in illustration A because of the feeling of motion. Since this observation, I have noticed many other interesting patterns made by Boston ivy, Low's ivy, Virginia creeper and the hydrangea vine on various buildings.



Illustration A—The interesting winter pattern of Boston ivy is often more effective than its summer foliage.



Illustration B — The Boston ivy's branches and grapelike fruit make a pleasing contrast with the brick.

The trumpet vine (*Campsis radicans*) gives some unusual results, too, but it is not so easily retained on a brick or stone wall, unless regular pruning takes place. Two plants were used to lend interest to the two blank walls of the bathhouse shown in illustration C, but they had to be restricted.

The poison ivy (illustration D) makes a furry pattern on the trunks of trees in the woods. The 3-leafleted vine, of course, is not for landscape use, but one has to admire its hairy branches and rich red, orange and yellow fall colors—from a distance.

The grape in winter is more than just a vine, with a coiled tendril to hold it in place on a trellis, fence or

arbor. The peeling bark of the younger stems and grooved bark of the older can give the grapevine value for its landscape effect rather than for its edible fruits. The large leaves are considered a drawback by many persons, but where this texture is needed the grapevine could enter the landscape picture.

For striking contrasts in texture—and this idea can be exploited—one might try the 5-leaved akebia with the large-leaved euonymus, or he might possibly carry the contrast to an even greater extreme and use the little-leaved euonymus with the English ivy.

Ground covers, too, can contrast with a vine on the wall. If the vine



Illustration C—A bathhouse, too, sometimes needs a bit of dressing up; it was accomplished here with two trumpet vines.



Illustration D—Even poison ivy can be admired—in the woods and from a distance.



Illustration E—Small pockets are often planting problems, but not if a large-leaved winter creeper is selected.

is of such a coarse texture as bunch-leaved ivy (*Hedera helix* *Conglomerata*), then a contrast can be obtained by using myrtle (*Vinca minor*) as the basal ground cover. If one wishes to go to extremes, then a fine-textured ground cover like Canby pachistima can be selected.

An interesting and harmonious combination is the Japanese or Chinese wistaria and a fairly heavy planting of *Vinca minor*. If the flowers of the wistaria are lavender or blue, a white-flowering form of myrtle, or periwinkle, may be used for a pleasing combination.

For Height in Small Areas

Many times small planting areas are left near walks, entrances or on terraces. Although height is needed in such circumstances, one does not wish to have a sentry on duty like a clipped form of Hicks yew, a pyramidal arborvitae or something else that may be just as out of place.



Illustration H—Allamanda in mild climates produces a profusion of large yellow flowers over a long period.



Illustration F—The Carriere or the species winter creeper (*Euonymus fortunei*) makes an ideal entrance plant.

The large-leaved euonymus (*E. f. vegetus*) in illustration E could be a happy choice. An espaliered plant could do equally well, particularly if such a plant as Hetz holly (*Ilex crenata* Hetzi), Burford holly (*Ilex cornuta* Burfordi), or rock cotoneaster (*C. horizontalis*) were employed.

It must be remembered that extra care is required when plants are used in an area where there is a strong reflection of heat. The location shown in illustration E is a good example. *Euonymus* plants, under such circumstances, seem more susceptible to scale and must be watered more often than is necessary for plants in lawn areas.

Spraying with a plastic covering to reduce the winter transpiration rate is also beneficial to the plant. This can be done twice, once about December 1 and a second time during early February. Evergreen shrubs are more easily injured under such



Illustration I—The Kirschner ivy, when allowed to spill over a low retainer wall, is relaxingly attractive.



Illustration G—The large flowers of the Mme. Galen trumpet vine are attractive, with their salmon-pink tones.

growing conditions than deciduous ones.

The entrance depicted in illustration F is graced with a lush, dark green euonymus, but under these circumstances the plant is not fully exposed to the sun or wind. Nearby trees canopy the area, and a multiple-stemmed sweet bay magnolia improves the growing conditions for the vine.

This simple entrance planting is much more effective than having a tightly clipped yew "shoe-horned" into the corner. Someone was also imaginative enough to leave a small planting pocket to allow for a planting.

Suitable Espaliers

An espalier could have been used here also. What shrubs could one select that would not become too large after five to 10 years? Several hollies could be trained for this [Continued on page 122]



Illustration J—Steep banks can be held in place by English ivy—and most attractively, if it is a north slope.

Gold Medal Winners in The Boston Flower Show

By A. I. Heimlich

Wonderland park, Revere, Mass., was once again the scene of the annual New England spring flower show, the 90th—officially opened by Gov. John N. Volpe of Massachusetts and Mrs. Volpe Saturday, March 11. Thousands of eager visitors were on hand the opening day to view the many delightful promises of spring to come. Theme of this year's show was "Gardens of the Americas."

An innovation this year was a gay yellow and white nylon-impregnated vinyl plastic dome, maintained with air pressure, used for additional exhibition space. The main feature in this air-supported structure was a formal garden by Bartlett Gardens, Hamilton, Mass. A low wall of brick and a boxwood hedge were used, and the background was of cedar and pine, with large plantings of azaleas in variety, Carolina rhododendron, pink and white dogwood and birch trees. Immediately in the foreground there was a pool with multicolored



Cherry Hill Nurseries, West Newbury, Mass., won the Beatrix Farrand silver bowl for the best showing of azaleas and rhododendrons in variety with this informal garden at the New England flower show.

lights. A gold medal, a first prize and the Massachusetts department of agriculture trophy for the best exhibit staged by a commercial grower in Massachusetts went to this display.

Clubhouse Prize Winners

Leaving the dome hall and entering the clubhouse, show visitors viewed a garden 12x70 feet, displayed by Alexander I. Heimlich, Woburn, Mass. A border held pink and white dogwood, Carolina rhododendron, pieris, tree wistarias and many alpine plants, as well as ground covers and miniature bulbs in bloom. In the center was a garden retreat, bordered by five large trained ivies. A gold medal and a first prize were won by this garden.

A terrace garden by the Old Colony Landscape Service, Weymouth, Mass., another gold medal and first prize winner, had a path of cut stone leading to a terrace holding a pool and fountain. The plant-

ing consisted of large pines, dogwood trees and rhododendrons and azaleas in variety.

A Canadian garden, by Pine Gardens, Milton, Mass., showed a grass path leading to a raised sitting area. The planting consisted of material suitable to Canadian conditions, such as the new lily, Golden Chalice; delphinium, and petunias. A small fountain emptied into an irregular-shaped pool. The display received a gold medal and a first prize.

Packard Nursery & Garden Shop, Rockland, Mass., won a gold medal and first award on a south Alaskan garden, tastefully done. Against an Alaskan scenic painting there was a cottage with a white picket fence and a little brook nearby. Plants used included daphne, bush blueberries, azaleas, bulbs in variety, geraniums and begonias.

Main Building Displays

An Old French Quarter patio garden of New Orleans was featured by Littlefield - Wyman Nurseries, Inc., Abington, Mass., in the main exhibition building. A courtyard of brick had a flaked stucco wall in the background showing stained cedar shutters and a balcony. There was also a circular pool in the setting. Taxus grew against the wall. There were plantings of azaleas and boxwood, and a gnarled old tree shading the scene had Spanish moss hanging from it. Judges gave this display a gold medal and first prize also.

An informal garden by Cherry Hill Nurseries, West Newbury, Mass., was awarded the Beatrix Farrand silver bowl, in addition to a gold medal and a first prize, for the best showing of azaleas and rhododendrons. There was a small terrace banked by well-flowered rhododendron in variety, with azaleas in the

[Concluded on page 87]



Winner of the president's cup for the most meritorious display, a gold medal and a first prize was this entry at the New England flower show by Weston Nurseries, Inc., Hopkinton, Mass.

Landscaping Ideas at Capital Show

By Vincent Vuoto

The preview of spring that was the 11th annual flower and garden show at the nation's capital erupted as a panorama of color and gardening ideas at the National Guard Armory, Washington, D. C., March 9 to 15.

The floral extravaganza, which shows strong gains in popularity and attendance each year, was formally opened the afternoon of March 9 by Mrs. John F. Kennedy in her first solo public appearance as "first lady." To mark the event, Mrs. Kennedy was presented with a bouquet of the new First Lady rose, grown especially for the occasion by C. R. Burr & Co., Inc., Manchester, Conn. The blooms, salmon-pink in color, were presented by Charles S. Burr, president of the nursery.

Nurserymen's Groups Aid

Two of the show's garden highlights were provided by nursery groups. The Maryland Nurserymen's Association entered a display with the theme, "good landscaping is a good investment for the homeowner—for recreational family living, monetary value, community living and protection from the elements." Plants used were labeled.

The Florida Nurserymen and Growers Association shipped plants and flowers from the south to create a tropical garden around a bamboo shelter, the entry winning a first prize. A patio area was covered with white gravel and black stepping-stones of various sizes, and the path leading to the patio was of white circular stepping stones. A large waterfall with a pool, at the left of the

patio, was banked with tropical foliage and flowering plants, having a huge coconut palm as an accent.

Focal point of the show, sponsored by the Allied Florists' Association of Greater Washington, D. C., in conjunction with the National Capital Garden Club League, was the dancing waters fountain display in the center of the huge armory floor. Landscape architect Boris V. Timchenko, designer of the show, laid out all cut flower and pot plant displays as an integral part of the over-all scheme, with major garden features in a circular arrangement around the focal point. Many of the competitive potted plant entries were arranged to resemble spring gardens.

Large Garden Winners

First prize in the large garden competition was won by J. H. Small & Sons, Inc., Washington, D. C., for a semiformal patio garden. A weathered brick patio and its grass area were edged with dwarf taxus, with a crescent-shaped patio area on the right-hand side of the entrance overlooking the grass and planted on each side with masses of white azaleas and flowering white dogwood trees in the rear. Masses of white azaleas were also planted at the far end of the mall area, with an antique birdbath shaded by a large dogwood tree.

Lewinsville Nursery, Inc., McLean, Va., was given second prize for a semiformal garden with the accent on modern design. This planting was triangular, with a sunken pool

and fountain of concrete and stone slabs at one point of the triangle. A raised area in the foreground was covered with washed natural gravel and accented by plantings of yucca and low-growing junipers among large rocks. The background of the garden showed azaleas and broad-leaved evergreens. Beds of salmon-colored tulips grew alongside the pool.

Hodgin & Gilliam Garden Center, Centerville, Va., was awarded third prize in the competition for a large semiformal garden, which featured a marble pool at the top of a gently sloped grass area. Marble squares were used as steppingstones on the right-hand side of the pool, with the background planted to broad-leaved evergreens, including magnolias and azaleas. Beds of light and dark blue hyacinths were used in the grassy foreground, with salmon-colored tulips and a large Magnolia grandiflora tree.

Medium-Size Gardens

In the medium-size garden competition, first place was given to Stock Bros., Inc., Bethesda, Md., for a semiformal garden with raised flagstone beds surrounding a grass area. The beds were planted with broad-leaved evergreens and backed by an arborvitae hedge on one side and a reed fence on another. The grass area was accented by a saucer-shaped stone birdbath on the right of the entrance.

Second prize in the medium-size garden competition was won by Campbell & Ferrara Nurseries, Alex-



Mrs. John F. Kennedy at the Washington flower show opening holding new First Lady roses grown for the occasion by C. R. Burr & Co. and presented by Charles S. Burr. left.



Semiformal garden with raised flagstone beds, winner of first prize in the medium-size garden competition for Stock Bros., Inc., Bethesda, Md., at the Washington show.

andria, Va., for a garden of semi-formal design. A raised red brick planting bed on the right of the entrance held masses of pink and white azaleas. Beds of deep pink and white tulips framed a grassy area and were also placed at the base of the raised planting bed.

William G. Burton, Hyattsville, Md., received third prize for a modern garden with an Oriental touch. A raised lawn in the foreground was backed by a slate pool placed against a natural-board fence. The pool included an unusual stone fountain,

with a planting of salmon-colored azaleas, broad-leaved evergreens and a large flowering dogwood tree in the background. A small magnolia tree in the lawn was underplanted with azaleas and miniature ivy.

Small Plantings

In the small garden competition, Chambers Flower Center, Washington, D. C., won first prize for a semi-formal garden with a raised brick planting bed in the background holding red and pink azaleas. A kidney-shaped pool was at the base

of the raised bed edged with miniature ivy. A large white pine showed in the background.

Ridgeville Nurseries, Inc., Mount Airy, Md., were awarded second prize for a semi-formal spring garden. Clumps of daffodils were placed at each side of the garden's entrance, with deep pink and white azaleas being used to ring a small grass area. Arborvitae was used as a background hedge.

The Conard-Pyle Co., West Grove, Pa., won a first prize for a [Continued on page 76]

Sterling Forest Gardens Honored in First Year

Sterling Forest Gardens, Tuxedo, N. Y., has received considerable publicity in the New York city metropolitan area through films shown to many garden clubs and civic organizations and full-page advertisements in the metropolitan newspapers inviting the public to view the gardens, which are operated by Sterling Forest Gardens Corp., a nonprofit organization.

The project was given added interest recently when it won one of the nine national industrial awards in the American Association of Nurserymen's 1960 "Plant America" competition, bringing like awards to landscape architects Carl Van Empelen, Jr., BNT, Haarlem, Holland, and W. A. Rutherford, Riverside,

Conn., and to Curtis Nurseries, Inc., Callicoon, N. Y., and Everett Conklin & Co., Inc., Westwood, N. J.

The entire establishment consists of approximately 30 square miles, or 22,000 acres, although the garden itself covers only 125 acres. Until 1922 there was a small community of 5,000 in the area, mining iron ore. Although it was a high-grade ore, it is considered too deep to be mined at the present time.

Visitors follow a winding forest road to a large parking area, from which a trackless train takes them to the garden itself.

In the Flower Meadow, paved areas of hexagon blocks surround 13 hexagonal beds in which a succession of bloom is provided by spring bulbs,

annuals and chrysanthemums. When the gardens opened to the public last May, nearly 1,000,000 bulbs were displayed—in the beds in the Flower Meadow, where thousands of tulips filled each of the hexagons; in woodlands, and along garden paths.

For the 1961 spring display, the International flower show committee of the Netherlands has selected for the gardens what is believed to be the most complete collection of bulbs to be seen in the country. Over 800,000 more bulbs were planted last fall, and a new area, the Connoisseur's Garden, was set aside for the finest novelty varieties of Dutch bulbs, some of which have never before been on public display in America. Plantings of azaleas and flowering trees and shrubs, which complete the spring scenes, are also being expanded.

From late May to early June, the Iris Valley is a center of attraction. The 15,000 iris plants, mostly of the tall bearded type, will be augmented this year by many recent introductions from west coast originators.

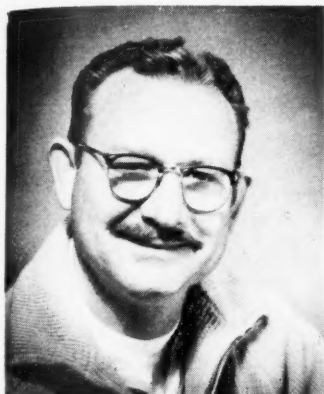
Tuberous-rooted begonias make up another major display. Choice hybrids in many colors are planted in large masses along the woodland walks in the shade of trees and are complemented with fancy-leaved caladiums and shade-tolerant annuals.

Successive shows are provided by roses planted in a tastefully designed 2-acre rose garden, masses of west coast lilies and Pacific Giant delphinium; lakeside plantings of day lilies; a perennial garden, and a final show of chrysanthemums. Peacocks, flamingos and other exotic birds that enjoy the full range of the gardens are additional attractions.

William Rutherford, the director of Sterling Forest Gardens, is assisted by Charles Lewis, head of the horticulture department, and Martin Flayter, landscape and maintenance director.



Colorful annuals fill the hexagonal beds in the Flower Meadow at Sterling Forest Gardens during the summer. Each hexagon is edged with *Ilex crenata helleri*. Tulips provide spring color here, and chrysanthemums replace the annuals for fall.



ROBERT J. VANDERGRIFT Armstrong's sales representative in Northern and Central California with many years of experience in fruit industry.



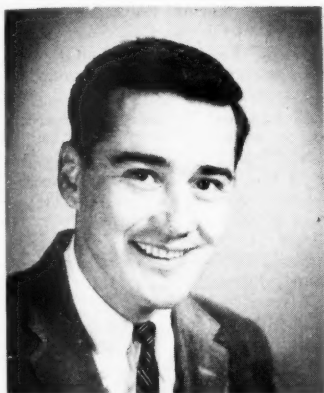
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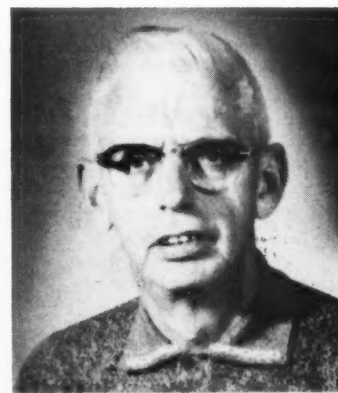
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Armstrong

NURSERIES
Ontario, California

QUALITY LINING-OUT STOCK

We list below the items of lining-out stock that we have available for the 1961 season. We think that we have very fine liners and will submit samples on request. No orders for less than 50 plants of a kind, please. 50 to 250 plants at the 100 rate, 250 and up at the 1000 rate.

LATH HOUSE GROWN POTTED LINERS

Grown outside in lath houses one or more seasons.

	Each Per 100	Each Per 1000
Barberry, julianae, 2 1/2-in. pot, 6 to 8 ins.	\$.016	\$.015
Elaeagnus simoni, 2 1/2-in. pot, 8 to 10 ins.	.15	.12 1/2
Ilex aquifolium, seedlings, 2 1/2-in. pot, 8 to 10 ins.	.15	.12 1/2
Ilex crenata convexa, 2 1/2-in. pot, 4 to 6 ins.	.15	.12 1/2
Ilex glabra, 2 1/4-in. pot, 6 to 8 ins.	.15	.12 1/2
Ilex crenata Green Thumb, 2 1/2-in. pot, 4 to 6 ins.	.15	.12 1/2
Ilex crenata helleri, 2 1/2-in. pot, 2-yr., 4 to 6 ins.	.15	.12 1/2
Ilex crenata helleri, 4-in. pot, 3-yr., 6 to 8 ins.	.35	.30
Ilex crenata hetzi, 2 1/2-in. pot, 6 ins.	.15	.12 1/2
Ilex opaca East Palatka, 3-in. pot, peat, heavy, 10 to 12 ins.	.15	.12 1/2
Nandina domestica, 2-in. rose pot, 8 to 10 ins.	.12 1/2	.10
Osmanthus fortunei, 2 1/2-in. rose pot, 4 to 6 ins.	.17 1/2	.15
Viburnum burkwoodi, 2 1/2-in. rose pot, 8 to 10 ins.	.12 1/2	.10
Viburnum chenaulti, 2 1/2-in. rose pot, 8 to 10 ins.	.12 1/2	.10
Thuja occidentalis compacta erecta, 2 1/2-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja occidentalis, Dark Green, 2 1/2-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja occidentalis globosa, 2 1/2-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja orientalis Baker's, 2 1/2-in. rose pot, 8 to 10 ins.	.17 1/2	.15
Thuja orientalis, Blue Cone, 2 1/2-in. rose pot, 8 to 10 ins.	.17 1/2	.15
Thuja orientalis, Mayhews, 2 1/2-in. rose pot, 6 to 8 ins.	.17 1/2	.15
Thuja orientalis newarkii, 2 1/2-in. rose pot, 8 to 10 ins.	.18	.16
Chamaecyparis plumosa, Green, 2 1/2-in. pot, 6 to 8 ins.	.15	.12 1/2
Chamaecyparis plumosa, Golden, 2 1/2-in. pot, 6 to 8 ins.	.15	.12 1/2
Juniper, chinensis hetzi, 2 1/2-in. pot, 8 to 10 ins.	.17 1/2	.15
Juniper, chinensis hetzi, beer cans, 12 to 15 ins.	.22 1/2	.20

BED-GROWN LINERS FROM LATH HOUSE

Boxwood, harlandi, beds, heavy, 8 to 10 ins.	.20	.17 1/2
Euonymus alatus compactus, beds, 4 to 6 ins.	.16	.15
Euonymus fortunei argenteo-variegatus, beds, 4 to 6 ins.	.15	.12 1/2
Euonymus fortunei compactus, beds, 8 to 12 ins.	.12 1/2	.10
Euonymus microphyllus, beds, heavy, 4 to 6 ins.	.15	.12 1/2
Euonymus radicans, beds, 10 ins.	.15	.12 1/2
Euonymus radicans, upright, beds, 8 to 12 ins.	.15	.12 1/2
Ilex crenata convexa, seedlings, 2-yr., beds, 10 to 12 ins.	.15	.12 1/2
Ilex crenata rotundifolia, beds, light, 6 to 8 ins.	.12 1/2	.10
Ligustrum lucidum Suwannee River, beds, 6 to 8 ins.	.35	.30

HEAVY FIELD-GROWN LINERS

All two-year, field-grown liners have been root-pruned and trimmed several times.

	Each Per 100	Each Per 1000		Each Per 100	Each Per 1000
Juniper, Andorra			Juniper, Pfitzer compacta Nicks		
1-yr., 6 to 8 ins.	\$.012 1/2	\$.010	1-yr., 6 to 8 ins.	\$.017 1/2	\$.015
2-yr., 8 to 12 ins.	.15	.12 1/2	2-yr., 8 to 12 ins.	.22 1/2	.20
Juniper, chinensis			Juniper, Pfitzer compacta Kallay		
albo-variegata			1-yr., 6 to 8 ins.	.17 1/2	.15
2-yr., 8 to 12 ins.	.25	..	2-yr., 8 to 12 ins.	.22 1/2	.20
Juniper, chinensis hetzi glauca			Juniper, Pfitzer Blue (Mayhews)		
1-yr., 6 to 8 ins.	.12 1/2	.10	2-yr., 10 to 12 ins.	.25	.22 1/2
1-yr., 8 to 12 ins.	.15	.12 1/2	Juniper, Pfitzer nana		
2-yr., 8 to 12 ins.	.17 1/2	.15	(Armstrong's)		
2-yr., 12 to 15 ins.	.20	.17 1/2	1-yr., 6 to 8 ins.	.17 1/2	.15
Juniper, chinensis maneyi			Juniper, sabinia		
1-yr., 6 to 8 ins.	.25	.22 1/2	1-yr., 6 to 8 ins.	.12 1/2	.10
1-yr., 8 to 12 ins.	.27 1/2	.25	2-yr., 10 to 12 ins.	.17 1/2	.15
Juniper, excelsa stricta			Juniper, sabinia Arcadia		
1-yr., 6 to 10 ins.	.12 1/2	.10	1-yr., 6 to 8 ins.	.25	..
1-yr., 8 to 12 ins.	.17 1/2	.15	Juniper, sabinia horizontalis		
Juniper, fastigiata			1-yr., 8 to 10 ins.	.25	..
1-yr., 8 to 12 ins.	.12 1/2	.10	Juniper, sabinia vancehoi		
2-yr., 12 to 15 ins.	.15	.12 1/2	1-yr., 6 to 8 ins.	.12 1/2	.10
Juniper, communis depressa			Juniper, virginiana repandens		
aurea (Golden Canadian)			1-yr., 6 to 8 ins.	.15	.12 1/2
1-yr., 8 to 10 ins.	.17 1/2	.15	2-yr., 8 to 10 ins.	.17 1/2	.15
2-yr., 10 to 12 ins.	.22 1/2	.20			
Juniper, chinensis pfitzeriana					
1-yr., 8 to 10 ins.	.17 1/2	.15			
2-yr., 10 to 12 ins.	.20	.17 1/2			

CARTWRIGHT NURSERIES

Collierville, Tenn.

Phone: UL 3-2352

COMING EVENTS

MEETING CALENDAR

May 18—Georgia nurserymen's field day, University of Georgia, Athens, Ga.

May 18 to 20—Florida Nurserymen and Growers Association, annual convention, Deauville hotel, Miami Beach, Fla.

May 21 to 23—Texas Association of Nurserymen, short course, Agricultural and Mechanical College of Texas, College Station, Tex.

May 28 to 30—Georgia State Nurserymen's Association, annual convention, the Corsair, Jekyll island, Ga.

May 29 to 31—Short course for Louisiana nurserymen, University of Southwestern Louisiana, Lafayette, La.

June 7 and 8—Refresher course for nurserymen, California Polytechnic Institute, San Luis Obispo, Calif.

June 11 to 13—South Carolina Nurserymen's Association, annual convention, Francis Marion hotel, Charleston, S. C.

June 11 to 13—Alabama Nurserymen's Association, annual convention, Albert Pick motel, Huntsville, Ala.

June 15 and 16—Florida Nurserymen and Grower's Association, short course, University of Florida, Gainesville.

June 19 to 21—Kentucky Nurserymen's Association, summer meeting, Ken-Lake hotel, Kentucky Lake state park, Hardin, Ky.

June 19 to 24—Advanced management conference, Syracuse University's Minnowbrook conference center.

June 20 to 23—Western chapter, National Shade Tree Conference, University of British Columbia, Vancouver, Canada.

June 25 to 27—Plains Nurserymen's Association and New Mexico Association of Nurserymen, joint convention, Western Skies motel, Albuquerque, N. M.

July 9 to 12—Canadian Association of Nurserymen, 38th annual meeting, Hotel Vancouver, Vancouver, B. C., Canada.

July 10 to 12—American Society of Landscape Architects, annual meeting, Harvest House hotel, Boulder, Colo.

July 15 to 20—American Association of Nurserymen, annual convention, Statler Hilton hotel, Washington, D. C.

July 25 and 26—Michigan landscape and nursery conference, Kellogg Center, Michigan State University, East Lansing, Mich.

August 1 to 3—Illinois State Nurserymen's Association, short course, Morton Arboretum, Lisle, Ill.

August 2—Massachusetts Nurserymen's Association, summer meeting, H. V. Lawrence, Inc., Falmouth, Mass.

August 6 to 8—Southern Nurserymen's Association, Hotel Peabody, Memphis, Tenn.

August 13 to 18—A. A. N. management conferences, Sagamore conference center of Syracuse University, near Raquette Lake, N. Y., and Lake Arrowhead conference center of the University of California, Lake Arrowhead, Calif.

August 17—New England Nurserymen's Association, summer meeting, Boulevard Nurseries, Newport, R. I.

August 20 to 25—National Shade Tree [Continued on page 22]



**A SPECIAL
P & D
ROSE SERVICE...REPEATED BY POPULAR DEMAND!**

OVERNIGHT DELIVERY

**of famous Oregon-grown
fresh dormant rose bushes**

Our airlift service, initiated two years ago to serve winter-damaged areas, proved to be so popular we are repeating it. *No need to get caught short with overnight delivery available.*

**NO EXTRA COST ON ORDERS
OF 250 OR MORE**

All orders shipped same day as received. Orders for 250 or more shipped air freight prepaid to your nearest air terminal, charging you usual pool car rate of 5 cents per bush and we pay the balance. Orders of 110 to 250 shipped air freight prepaid, charging you 10 cents per bush. Orders for less than 110 shipped express collect.

Send check when ordering unless you already have established credit with Peterson & Dering.

To facilitate air shipment, roses will be trimmed to 6", 8" or 10". Please specify preference.

For delivery tomorrow . . . phone or wire your order today!

OTHER P & D EXTRAS AT NO EXTRA COST

1. Every bush is labeled—No variety mix-ups.
2. Every bush is top-tied—Easier to handle.
3. Every bush is trimmed to your specifications—Saves on freight, storage space and time.
4. Pliable fibrous roots and short shanks—Easier to pot and faster growing.
5. Free Ad Mats and Merchandising Aids—help you sell.
6. Color Folders and Banners—available at cost.
7. Free Color Pictures—for each variety ordered.

GOOD SELECTIONS STILL AVAILABLE

Most patent and non-patented varieties available in grades #1 and #1½. Choose from our latest listing. Minimum order, 110 roses. Please specify if substitute variety or grade may be shipped if desired grade or variety is out of supply.



PETERSON & DERING

ROSE GROWERS • SCAPPOOSE, OREGON

TELEPHONE LINDEN 3-6323



T. G. OWEN & SON, INC.

Columbus, Miss.

FINISHED STOCK

These prices are strictly based on wholesale quantities, 25 or more plants of a variety in one grade. If you order only 10 to 24 plants of a variety in one grade, add 10c per plant. If you order less than 10 plants of a variety in one grade, add 25c per plant. We extend to you a cordial invitation to visit our nursery.

	Each
Biota aurea nana (Berckmans)	25 or more
12 to 15 ins., B&B	\$0.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75

Biota aurea pyramidalis compacta	
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25

Biota bakeri

Biota excelsa

Biota sibiyl

18 to 24 ins., B&B	.75
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25
3 to 4 ft., B&B	1.50
4 to 5 ft., B&B	2.00
5 to 6 ft., B&B	2.25

Biota Bonita

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50

Biota Bonita, upright

12 to 15 ins., B&B	.90
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.35

Biota Blue Cone

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	1.75

Biota excelsa compacta

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50

Biota fruitlandi

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75
3 to 4 ft., B&B	2.00

Cedrus deodara

18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75

Blue Lawson Cypress

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Juniper, Andorra

12 to 15 ins., B&B	.90
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Juniper, Pfitzer

Juniper, Pfitzer compacta

12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

Juniper, Pfitzer nana

12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.75
30 to 36 ins., B&B	2.50

Juniper, Pfitzer Blue (Hill's Strain)

10 to 12 ins., B&B	1.00
12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50
30 to 36 ins., B&B	2.50

Juniper, Blue-Gray

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.75
30 to 36 ins., B&B	2.25

Juniper, chinensis fortunei

15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	1.75

Juniper, chinensis densa glauca

15 to 18 ins., B&B	1.25
2 to 3 ft., B&B	1.75

	Each
Juniper, excelsa stricta	25 or more
12 to 15 ins., B&B	\$0.85
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	2.25
3 to 4 ft., B&B	2.75

Juniper, hibernica fastigiata

24 to 30 ins., B&B	.90
30 to 36 ins., B&B	1.00

Juniper, sabina tamariscifolia

12 to 15 ins., B&B	1.25
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Juniper, virginiana burki

24 to 30 ins., B&B	1.75
30 to 36 ins., B&B	2.00

Juniper, virginiana burki compacta
(A counterpart of the well-known J. virginiana burki, except that this one is a beautiful spreading type, maintaining the well-known color of the upright form.)

12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50
18 to 24 ins., B&B	1.75
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

Juniper, virginiana canaerti

24 to 30 ins., B&B	2.25
30 to 36 ins., B&B	2.50

Juniper, virginiana Dundee

30 to 36 ins., B&B	2.50
3 to 4 ft., B&B	3.50

Juniper, virginiana keteleeri

24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.25
5 to 6 ft., B&B	3.50

Thuja occidentalis Hetz Winter Green

Thuja occidentalis pyramidalis	
12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
2 to 3 ft., B&B	1.50

Berberis julianae

12 to 15 ins., B&B	1.00
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Berberis sargentiana

12 to 15 ins., B&B	.90
24 to 30 ins., B&B	1.50

Buxus sempervirens eroni

10 to 12 ins., B&B	.90
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50

Camellia sasanqua, Maiden's Blush

18 to 24 ins., B&B	1.25
2 to 3 ft., B&B	1.50

Cleyera japonica (Ternstroemia)

12 to 15 ins., B&B	.85
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Elaeagnus fruitlandi

15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00
4 to 5 ft., B&B	1.50

Euonymus japonicus aureo-variegatus

10 to 12 ins., B&B	.90
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Euonymus radicans erectus

12 to 15 ins., B&B	.60
15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90
(Deduct 50% if wanted B.R.)	

Gardenia radicans

12 to 15 ins., B&B	.70
15 to 18 ins., B&B	.80

Hex cornuta burfordi

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Hex cornuta, seedlings

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00

Hex erenata convexa bullata

10 to 12 ins., B&B	.90
12 to 15 ins., B&B	1.00

Hex erenata hetzi

10 to 12 ins., B&B	.85
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25

	Each
Hex erenata rotundifolia	25 or more
12 to 15 ins., B&B	\$1.00
15 to 18 ins., B&B	1.25

Hex glabra (Inkberry)

15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50

Hex opaca East Palatka

24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00
4 to 5 ft., B&B	2.50

Hex opaca Howard

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00
4 to 5 ft., B&B	2.50

Hex opaca Howard, seedlings

3 to 4 ft., B&B	2.00
5 to 6 ft., B&B	2.25
6 to 8 ft., B&B	4.00

Hex vomitoria, dwarf

24 to 30 ins., B&B	2.50
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Jasminum floridum

18 to 24 ins., B&B	.75
2 to 3 ft., B&B	.90
(Deduct 50% if wanted B.R.)	

Laurel, Cherry

2 to 3 ft., B&B	1.25
-----------------	------

Ligustrum ionandrum

A government introduction.
(Very small leaves, low growing and bushy. Forms a perfect specimen without shearing.)

15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Ligustrum japonicum

3 to 4 ft., B&B	1.25
4 to 5 ft., B&B	1.50

Ligustrum lucidum compactum

Ligustrum texanum

18 to 24 ins., B&B	.85
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25

Magnolia grandiflora

18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.25
3 to 4 ft., B&B	1.75

Nandina domestica

12 to 15 ins., B&B	.60
15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90
24 to 30 ins., B&B	1.10

Osmanthus fortunei

12 to 15 ins., B&B	.75
15 to 18 ins., B&B	.90

Photinia serrulata

12 to 15 ins., B&B	.80
15 to 18 ins., B&B	.90
18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.25

Viburnum tinus

30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	1.75

Acer palmatum atropurpureum, seedlings (Japanese Red-Leaved Maple)

12 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.50

Barberry, Red-Leaved

12 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Cornus florida

2 to 3 ft., B&B	1.00
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Cornus florida rubra

18 to 24 ins., B&B	1.25
3 to 4 ft., B&B	2.50

Crape Myrtle, Wm. Toovey

18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00

Cydonia japonica

18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00
(Deduct 50% if wanted B.R.)	

Lonicera Flaming Beauty

12 to 18 ins., B&B	.85
18 to 24 ins., B&B	1.00

Spiraea reevesiana flore-pleno

3 to 4 ft., B&B	1.00
4 to 5 ft., B&B	1.25

s, Miss

T. G. OWEN & SON, INC.

Columbus, Miss.

LINING-OUT STOCK

Each		Each		Each		Each	
Per 100		Per 1000		Per 100		Per 1000	
All potted liners in this list will be shipped in paper cups or pots without extra charge. Orders for 25 to 249 of a variety in one size take the 100 rate. Orders for 250 or more of a variety in one size take the 1000 rate.							
	Each	Each					
	Per 100	Per 1000					
Biota aurea nana (Berckmans)							
Biota aurea pyramidalis compacta							
Biota bakeri							
Biota Blue Cone							
Biota Bonita							
Biota Bonita, upright							
Biota excelsa							
Biota fruitlandi							
Biota sibirica							
2 1/4-in. pots	\$0.17	\$0.15					
2 1/2-in. pots	.18	.16					
Strong rooted cuttings	.10	.08					
Varieties marked by (**) double asterisk							
are not available in rooted cuttings.							
Cedrus deodara							
2 1/4-in. pots	.18	.16					
2 1/2-in. pots	.10	.08					
4 to 4 ins., seedlings	.12	.10					
4 to 6 ins., seedlings	.14	.12					
6 to 8 ins., seedlings	.14	.12					
Juniper, Andorra							
Juniper, Pfitzer							
Juniper, Pfitzer compacta							
2 1/4-in. pots	.14	.12					
2 1/2-in. pots	.16	.14					
Strong rooted cuttings	.10	.08					
Juniper, Pfitzer Blue (Hill's Strain)							
2 1/4-in. pots	.18	.16					
Strong rooted cuttings	.12	.10					
Juniper, Pfitzer nana							
2 1/4-in. pots	.20	.18					
2 1/2-in. pots	.22	.20					
Juniper, Blue Vase (Texas Star Juniper)							
*2 1/4-in. pots	.18	.16					
*2 1/2-in. pots	.20	.18					
Juniper, chinensis sargentii, blue							
Juniper, japonica procumbens							
2 1/4-in. pots	.22	.20					
2 1/2-in. pots	.24	.22					
Juniper, excelsa stricta							
Juniper, glauca hetzi							
2 1/4-in. pots	.17	.15					
2 1/2-in. pots	.18	.16					
Juniper, virginiana burkii compacta (See description in B & B list)							
2 1/4-in. pots	.20	.18					
2 1/2-in. pots	.22	.20					
Thuja occidentalis pyramidalis							
2 1/4-in. pots	.18	.16					
We have these in surplus:							
Note SPECIAL LOW PRICES!							
**Taxus cuspidata							
Taxus intermedia							
Taxus andersonii							
**Taxus media hicksii							
Taxus media brownii, rooted cuttings only							
4 to 6 ins., rooted cuttings	\$0.08	\$0.06					
2 1/4-in. pots	.12	.10					
2 1/2-in. pots	.14	.12					
(Varieties marked by (**) double asterisk, available in rooted cuttings and 2 1/4-in. pots.)							
Abelia grandiflora							
2 1/4-in. pots	.15	.14					
2 1/2-in. pots	.16	.15					
Berberis julianae							
2 1/4-in. pots	.17	.16					
2 1/2-in. pots	.18	.17					
Buxus japonica							
2 1/4-in. pots, heavy	.11	.10					
2 1/2-in. pots, heavy	.12	.11					
Cleyera japonica (Ternstroemia)							
2 1/2-in. pots	.18	.17					
Cleyera ochracea							
2 1/2-in. pots	.19	.18					
3-in. pots	.21	.20					
Elaeagnus fruitlandi							
2 1/4-in. pots	.13	.12					
2 1/2-in. pots	.15	.14					
Elaeagnus pungens, dwarf							
2 1/4-in. pots	.19	.18					
2 1/2-in. pots	.21	.20					
Euonymus radicans erectus							
2 1/4-in. pots	.10	.09					
Hedera helix (English Ivy)							
2 1/4-in. pots	.11	.10					
2 1/2-in. pots	.13	.12					
Gardenia fortunei							
2 1/2-in. pots	.16	.15					
Ilex cornuta femina							
2 1/2-in. pots	.15	.14					
Ilex crenata buxifolia							
Ilex crenata repandens							
2 1/4-in. pots	.13	.12					
2 1/2-in. pots	.15	.14					
Ilex crenata convexa bullata							
Ilex crenata hetzi							
2 1/4-in. pots	.14	.13					
2 1/2-in. pots	.15	.14					
4x6 ins., beds, well-br.	.14	.13					
Ilex crenata rotundifolia							
2 1/4-in. pots	.15	.14					
6x8 ins., bed-grown, well-br.	.12	.11					
Ilex crenata fosteri No. 1							
A new, very low growing, very compact spreader. Its small serrated leaves are not convex and are more pointed than those of convexa.							
2 1/4-in. pots	\$0.18	\$0.16					
Ilex crenata, seedlings							
2-in. pots	.09	.08					
2 1/4-in. pots	.11	.10					
3x4 ins., bed-grown	.05	.04					
Ilex opaca East Palatka							
2 1/4-in. pots	.13	.12					
2 1/2-in. pots	.14	.13					
Ilex opaca femina							
2 1/2-in. pots	.18	.17					
Ilex opaca Howard							
2 1/2-in. pots	.14	.13					
Jasminum floridum							
2 1/4-in. pots	.10	.09					
Laurel, Cherry							
2 1/4-in. pots	.14	.13					
Ligustrum japonicum							
2 1/4-in. pots	.11	.10					
Ligustrum texanum							
2 1/4-in. pots	.16	.15					
Magnolia grandiflora							
2 1/4-in. pots	.14	.13					
3x4 ins., bed-grown seedlings	.06	.05					
Osmanthus fortunei							
2 1/2-in. pots	.18	.17					
Photinia serrulata							
2 1/4-in. pots	.16	.15					
4x6 ins., seedlings	.04	.03					
Pittosporum tobira							
2 1/4-in. pots	.11	.10					
Pyracantha belli							
2 1/4-in. pots	.19	.17					
2 1/2-in. pots	.20	.18					
Pyracantha lalandi							
2 1/4-in. pots	.12	.10					
2 1/2-in. pots	.15	.14					
Strong rooted cuttings	.07	.06					
Pyracantha yunnanensis							
2 1/4-in. pots	.16	.15					
Viburnum tinus							
2 1/2-in. pots	.10	.09					
Acer palmatum atropurpureum, seedlings							
2 1/4-in. pots	.21	.20					
*2 1/2-in. pots	.26	.25					
Cornus florida							
2 1/4-in. pots	.09	.08					

SPECIAL NOTICE: Items marked by (*) asterisk will be available for delivery late spring of 1961. All items not so marked are ready for immediate or later shipment to suit customer's requirements.

CONTAINER-GROWN STOCK

		1-gal.	2-gal.			1-gal.	2-gal.
		Each 25	Each 25			Each 25	Each 25
		or more	or more			or more	or more
PLEASE NOTE: Our container-grown plants are listed according to grade, which enables you to determine what you are getting for your money.							
These prices are strictly based on wholesale quantities, 25 or more plants of a variety in one container size and one grade.							
If you order 10 to 24 plants of a variety in one container size and one grade, add 5c per plant.							
If you order less than 10 plants of a variety in one container size and one grade, add 10c per plant.							
		1-gal.	2-gal.			1-gal.	2-gal.
		Each 25	Each 25			Each 25	Each 25
		or more	or more			or more	or more
Abelia grandiflora				Ilex cornuta burfordii			
12 to 15 ins.		\$0.50	...	10 to 12 ins.		\$0.50	...
15 to 18 ins. ....		.55	...	12 to 15 ins. ....		.55	\$1.00
Cleyera japonica (Ternstroemia)				15 to 18 ins. ....		.65	1.10
10 to 12 ins. ....		.55	...	18 to 24 ins.		1.40	...
12 to 15 ins. ....		.60	...	Ilex cornuta rotunda			
15 to 18 ins. ....		.70	...	8 to 10 ins. ....		.75	...
Cotoneaster parneyi				12 to 15 ins.		1.35	...
15 to 18 ins. ....		.55	...	Ilex crenata buxifolia			
Elaeagnus, dwarf				6 to 8 ins. ....		.50	...
12 to 15 ins. ....		.70	...	8 to 10 ins. ....		.55	...
Euonymus radicans erectus				Ilex crenata convexa bullata			
12 to 15 ins. ....		.50	...	8 to 10 ins. ....		.55	...
Ilex aquifolium				10 to 12 ins. ....		.65	...
8 to 12 ins. ....		.50	...	12 to 15 ins. ....		.75	1.20
12 to 15 ins. ....		.60	...	15 to 18 ins.		1.30	...
Ilex cornuta burfordii				Ilex crenata hetzli			
10 to 12 ins.		\$0.50	...	**Ilex crenata repandens			
12 to 15 ins. ....		.55	...	Ilex crenata rotundifolia			
15 to 18 ins. ....		.60	...	6 to 8 ins. ....		.50	...
18 to 24 ins. ....		.70	...	8 to 10 ins. ....		.55	...
Ilex cornuta rotunda				10 to 12 ins. ....		.60	...
8 to 10 ins. ....		.75	...	12 to 15 ins.		1.10	1.20
12 to 15 ins.		1.35	...	15 to 18 ins.		1.20	...
Ilex crenata buxifolia				Variety marked by (**) double asterisk			
6 to 8 ins. ....		.50	...	Ilex opaca femina			
8 to 10 ins. ....		.55	...	12 to 18 ins. ....		.60	...
10 to 12 ins. ....		.60	...	Ilex vomitoria, dwarf			
12 to 15 ins. ....		.65	...	6 to 8 ins. ....		.55	...
15 to 18 ins. ....		.70	...	8 to 10 ins. ....		.70	...
Ligustrum lucidum compactum				Ilex cornuta burfordii			
12 to 18 ins.		\$0.50	...	10 to 12 ins.		\$0.50	...
18 to 24 ins. ....		.60	...	12 to 15 ins. ....		.55	\$1.00
Magnolia grandiflora				15 to 18 ins. ....		.60	...
12 to 18 ins. ....		.55	...	Ilex cornuta rotunda			
Osmanthus fortunei				8 to 10 ins. ....		.75	...
10 to 12 ins. ....		.50	...	12 to 15 ins.		1.35	...
12 to 15 ins. ....		.55	...	Ilex crenata buxifolia			
Pittosporum tobira				6 to 8 ins. ....		.50	...
10 to 12 ins. ....		.50	...	8 to 10 ins. ....		.55	...
Podocarpus sinensis				Ilex crenata convexa bullata			
12 to 15 ins. ....		.50	...	8 to 10 ins. ....		.55	...
15 to 18 ins. ....		.55	...	10 to 12 ins. ....		.65	...
Pyracantha belli				12 to 15 ins. ....		.75	1.20
12 to 15 ins. ....		.50	...	15 to 18 ins.		1.30	...
15 to 18 ins. ....		.55	...	Ilex crenata hetzli			
18 to 24 ins. ....		.60	...	**Ilex crenata repandens			
Pyracantha coccinea lalandi				Ilex crenata rotundifolia			
15 to 18 ins. ....		.50	...	6 to 8 ins. ....		.50	...
18 to 24 ins. ....		.60	\$1.25	8 to 10 ins. ....		.55	...
2 to 3 ft. ....		.70	1.40	10 to 12 ins. ....		.60	...
Pyracantha formosana				12 to 15 ins.		1.10	1.20
12 to 18 ins. ....		.50	...	15 to 18 ins.		1.20	...
Pyracantha graberi				Variety marked by (**) double asterisk			
12 to 18 ins. ....		.50	...	Ilex opaca femina			
18 to 24 ins.		1.10	...	12 to 18 ins. ....		.60	...
Pyracantha Kusan				Ilex vomitoria, dwarf			
18 to 24 ins. ....		.55	...	6 to 8 ins. ....		.55	...
2 to 3 ft. ....		.65	...	8 to 10 ins. ....		.70	...

Gresham's Nursery, Inc.



6801 MIDLOTHIAN PIKE
RICHMOND 25, VIRGINIA

LINING-OUT STOCK — 2 1/4-IN. POTS

	Per 100	Per 1000		Per 100	Per 1000
ABELIA grandiflora	\$15.00	\$125.00	NANDINA DOMESTICA,		
AUCUBA			B. R.	\$15.00	\$125.00
Japonica	17.50	150.00	OSMANTHUS		
Japonica variegata	17.50	150.00	Aquifolium	20.00	185.00
BERBERIS			PHOTINIA		
Candidula	22.50	200.00	Serrulata	20.00	185.00
Julianae nana	22.50	200.00	PYRACANTHA		
BUXUS			Crenato-serrata, red	20.00	185.00
Sempervirens, heavy			Lalandi, orange	22.50	200.00
R. C.	7.50	50.00	Rogersiana	22.50	200.00
Suffruticosa, R. C.	10.00	75.00	TEUCRIUM		
CHAMAECYPARIS (RETINOSPORA)			CHAMAEDRY	15.00	125.00
Cyano Viridis	22.50	200.00	THUJA (Arborvitae).		
COTONEASTER			American		
Francheti	12.50	100.00	(nigra compacta)	20.00	185.00
Praecox	20.00	185.00	Bakeri	20.00	185.00
Repens, evergreen, hardy.			Elegantissima	20.00	185.00
More spreading than			Globosa (Globe)	20.00	185.00
horizontalis	15.00	125.00	Pyramidalis	20.00	185.00
CUNNINGHAMIA LANCEOLATA					
Glauc (blue)	20.00	185.00			
DEUTZIA					
Gracilis	12.50	100.00			
ELAEAGNUS					
Pungens compacta	20.00	185.00			
ILEX					
Crenata convexa	18.50	175.00			
Crenata microphylla	20.00	185.00			
Crenata microphylla					
erecta	20.00	185.00			
Crenata repandens	20.00	185.00			
Crenata rotundifolia	20.00	185.00			
Opaca, cuttings from					
choice berried					
plants	25.00	225.00			
Opaca Arden	25.00	225.00			
Opaca Croonenburg	25.00	225.00			
Opaca Ruby Red	30.00	275.00			
JUNIPERUS					
Andorra	22.50	200.00			
Conferta litoralis					
(Shore Juniper)	22.50	200.00			
Hibernica					
(Irish Juniper)	17.50	150.00			
Pfitzeriana	20.00	185.00			
Pfitzeriana glauca	22.50	200.00			
Sargenti	20.00	185.00			
Stricta	20.00	185.00			
Waukegan	20.00	185.00			
LIGUSTRUM					
Lucidum	17.50	150.00			
Lucidum nobilis	20.00	175.00			
Lucidum recurvifolium	17.50	150.00			
MAGNOLIA					
Grandiflora,					
6 to 8 ins., B. R.	15.00	125.00			

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TEXAS SHORT COURSE

The 30th annual short course for Texas nurserymen will be held May 21 to 23 at the Agricultural and Mechanical College of Texas, College Station. The course is sponsored by Texas A. & M. in co-operation with the Texas agricultural experiment station, the Texas agricultural extension service and the Texas Association of Nurserymen. Registration will be May 21 at the Serpentine lounge in the Memorial Student Center at 1:30 p.m. The afternoon will be spent inspecting the research work in progress at the college, and the day's activities will be concluded with a barbecue at the floriculture field laboratory. Following is the detailed program of subsequent events:

MAY 22, 9:30 A. M.

Bill Fulgim, executive secretary, Texas Association of Nurserman, chairman.

Welcome, by Dr. R. E. Patterson, dean of agriculture, Agricultural and Mechanical College of Texas.

"State and Federal Laws Affecting Nurserymen and Landscape Horticulturists," by Alvis Vandergriff, attorney, Austin, Tex.

"Pest Control Problems of Growers, Distributors and Consumers of Nursery Products":

"Diseases," by Harlan E. Smith, plant pathologist, Texas agricultural extension service.

"Insects," by C. F. Garner, entomologist, Texas agricultural extension service, and Paul Gregg, entomologist, Klaus-White Chemical Co., San Antonio, Tex.

"Nematodes," by W. H. Thames, Jr., associate professor, department of plant physiology and pathology, Texas A. & M.

Panel and group discussion, with Paul Gregg, moderator, and Harlan Smith, C. F. Garner and W. H. Thames, Jr., panel members.

MAY 22, 2 P. M.

R. S. Suggs, Suggs Landscape Co., Houston, Tex., chairman.

"Herbicides and Weed Controls," by John Long, department of agronomy, Texas agricultural experiment station.

"Modern Turf Management," by E. C. Holt, professor of agronomy, Texas A. & M.

Tour of experimental turf plots. Texas Aggie Smorgasbord, ballroom, Memorial Student Center, with L. J. Hilscher, Hilscher Nursery & Garden Center, Fort Worth, Tex., president, Texas Association of Nurserymen, chairman.

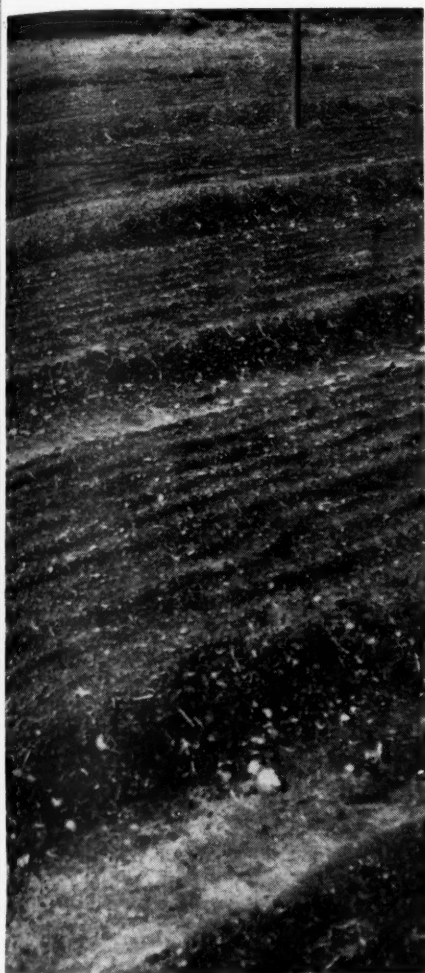
Address: "Plants for Modern Landscapes," by Tom Scarbrough, Tom's Tree Place, Lubbock, Tex.

MAY 23, 9:30 A. M.

Scott Mosty, Mosty Bros. Nursery, Center Point, Tex., chairman.

"Automation in the Nursery," by W. P. Nuffer, Mountain View Nurseries, Inc., Troutdale, Ore.

"The Importance of Cultural Practices



Greenhouse manager, FRED J. WERNER, examines clean soil as MR. STUBER looks on with approval. Photo at left shows part of 6,000 square foot area treated with VAPAM more than six weeks previously.

"VAPAM® cleans soil better than anything else"

Says: FRED STUBER, Yonkers, N. Y., nurseryman

Stuber's Flower Shop and nursery has catered to the public in southern Westchester County, N. Y., since 1888. Stuber's grows most of its own plants and flowers, and retails all it grows. Third generation Fred Stuber, now president of the firm, has this to say about VAPAM soil fumigant:

"We've used VAPAM for three years. We find it's easy to apply and economical to use . . . much cheaper than hand weeding. It has just about eliminated our weed problem. We even treat walkways. VAPAM gives us better control than anything we have ever used."

More and more progressive, profit-wise nurserymen like Fred Stuber are learning

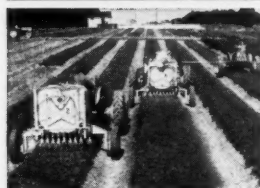
that it pays to clean soil with VAPAM. Just one pre-plant application knocks out weeds, nematodes and most other soil pests.

VAPAM is a liquid fumigant that doesn't require special application equipment. It does not leave harmful residues in the soil after the fumigant disappears. And here's the pay-off: (1) VAPAM drastically cuts expenses for weeding and cultivating, (2) it gives plants a chance to grow faster and better in weed-free, disease-free soil.

Clean *your* soil with VAPAM. See your local supplier, or write for further information to Stauffer Chemical Company, 380 Madison Avenue, New York 17, N. Y.



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	50 at 100 rate	Per 100	Per 1000		50 at 100 rate	Per 100	Per 1000
● SPECIAL STRAIN SCOTCH PINE				● JAPANESE YEW—Grown from seed			
Very best Christmas tree strain. Grown from seed collected by our own men from selected parent trees. Exceptionally healthy, sturdy, straight-stemmed. We have all other best strains Scotch Pine.				Taxus cuspidata—upright			
2-yr., S., 4 to 8 ins.....	\$ 5.00	\$ 25.00		pyramidal			
2-yr., S., 5 to 10 ins.....	6.00	30.00		(3-2), T., 6 to 12 ins....	\$30.00	\$200.00	
4-yr., T., 8 to 14 ins.....	20.00	100.00		(3-2), T., 12 to 18 ins....	50.00	300.00	
● WHITE PINE				● JAPANESE YEW—Transplanted rooted cuttings			
3-yr., S., 5 to 10 ins.....	8.00	40.00		Taxus cuspidata—spreading			
4-yr., T., 6 to 12 ins.....	15.00	75.00		1-yr., T., 5 to 6 ins.....	25.00	175.00	
● MUGHO PINE				2-yr., T., 6 to 8 ins.....	35.00	250.00	
2-yr., S., 2 to 4 ins.....	5.00	25.00		Taxus bicksi—upright			
4-yr., T., 3 to 5 ins.....	15.00	75.00		1-yr., T., 5 to 6 ins.....	25.00	175.00	
● AUSTRIAN PINE				2-yr., T., 8 to 10 ins.....	40.00	300.00	
2-yr., S., 3 to 6 ins.....	4.00	20.00		Taxus brownii—upright			
3-yr., S., 8 to 14 ins.....	7.00	35.00		1-yr., T., 4 to 6 ins.....	25.00	175.00	
● BLACK HILLS SPRUCE				2-yr., T., 6 to 8 ins.....	35.00	250.00	
3-yr., S., 5 to 10 ins.....	7.00	35.00		Taxus intermedia—spreading			
4-yr., S., 8 to 12 ins.....	9.00	45.00		1-yr., T., 4 to 6 ins.....	25.00	175.00	
● NORWAY SPRUCE—Fast-growing				2-yr., T., 6 to 8 ins.....	35.00	250.00	
2-yr., S., 5 to 10 ins.....	7.00	35.00		● JUNIPER—Blue Pfitzer—Chinensis hetzi			
3-yr., S., 10 to 18 ins.....	9.00	45.00		1-yr., T., 5 to 7 ins.....	25.00	200.00	
3-yr., T., 5 to 10 ins.....	15.00	75.00		● GLOBE ARBORVITAE			
● WHITE SPRUCE				Woodwardi—dark green			
3-yr., S., 8 to 14 ins.....	8.00	40.00		1-yr., T., 4 to 6 ins.....	30.00	250.00	
3-yr., T., 6 to 12 ins.....	15.00	75.00		2-yr., T., 5 to 7 ins.....	40.00	300.00	
● COLORADO BLUE SPRUCE				Hovey's—green			
3-yr., S., 6 to 12 ins.....	11.00	55.00		1-yr., T., 5 to 7 ins.....	25.00	200.00	
4-yr., T., 4 to 8 ins.....	18.00	90.00		2-yr., T., 6 to 8 ins.....	40.00	300.00	
● DOUGLAS FIR				● PYRAMIDAL ARBORVITAE—Compacta			
2-yr., S., 4 to 8 ins.....	6.00	30.00		1-yr., T., 5 to 7 ins.....	35.00	300.00	
3-yr., S., 8 to 12 ins.....	11.00	55.00		● JAPANESE HOLLY			
● AMERICAN ARBORVITAE				Ilex rotundifolia			
3-yr., S., 6 to 12 ins.....	8.00	40.00		1-yr., T., 4 to 6 ins.....	20.00	175.00	
● CANADIAN HEMLOCK				Ilex convexa			
2-yr., S., 3 to 6 ins.....	9.00	45.00		1-yr., T., 4 to 6 ins.....	20.00	175.00	
3-yr., S., 8 to 12 ins.....	16.00	80.00		Ilex crenata hetzi			
● CONCOLOR FIR				Transplant liners,			
3-yr., S., 6 to 12 ins.....	8.00	40.00		6 to 10 ins.....	35.00	300.00	

All our 3-yr. and 4-yr. seedlings are root pruned before previous growing season to make semitransplants.

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MUSSER FORESTS

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INDIANA, PENNA.

on Plant Performance," by Richard W. Harris, chairman, department of landscape horticulture, University of California, Davis.

MAY 23, 12:30 P. M.

Ralph C. Griffing, Griffing Nurseries, Beaumont, Tex., chairman.

"Recent Research of Interest to Nurserymen," by Davis A. Pate, department of floriculture, Texas A. & M.

"Trends and Changes Affecting Nurserymen," by A. F. DeWerth, department of floriculture, Texas A. & M.

Awarding of certificates and handbooks.

GEORGIA CONVENTION

"The New Look in Our Industry" is the theme of the annual convention of the Georgia State Nurserymen's Association, to be held May 28 to 30. Headquarters will be at The Corsair, Jekyll Island, Ga. A recreation lounge will be available for the ladies during the sessions, details of which follow:

MAY 28

3 p. m.—Registration, lobby, The Corsair, Jekyll Island.

7:30 p. m.—Buffet supper, Nautilus restaurant; beach party for children.

MAY 29

9 a. m.—Welcome and committee appointments, with Charles Morse, Jr., Morse Bros., Chattanooga, Tenn., president, presiding.

9:30 a. m.—"The New Look in Landscape Plants," by Frank A. Smith, Frank A. Smith & Co., Atlanta, Ga.

10 a. m.—Speaker from the American Association of Nurserymen.

10:45 a. m.—Report from division of entomology and plant industry, by W. E. Blasingame, director.

11 a. m.—Exhibitors' hour.

12 m.—Lunch.

2 p. m.—Tour of the islands, led by George Newberry.

7 p. m.—Banquet, with speaker, George F. Hull, garden editor, Chattanooga Times.

9 p. m.—Dancing.

MAY 30

8 a. m.—A. A. N. breakfast, Nautilus restaurant.

9 a. m.—Call to order, with President Morse presiding.

9:30 a. m.—"The New Look in Annuals and Perennials," by William J. Park, George W. Park Seed Co., Greenwood, S. C.

10:30 a. m.—Business session.

CALIFORNIA COURSE

Otto Martens, Deigaard Nurseries, Inc., Monrovia, Calif., has been appointed to arrange and conduct the plant forum phase of the California nurserymen's refresher course, to be held June 7 and 8 at California Polytechnic College, San Luis Obispo, according to Peter Sugawara, Monte Bello Nursery, Los Altos, Calif., chairman of the course.

Mr. Martens will outline the plant [Continued on page 28]

MR. NURSEYMAN: Here is your chance to
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MONTMORENCY CHERRY, 7/16-in. cal.—Reg. 70c	SPL. 35c
EARLY RICHMOND CHERRY, 7/16-in. cal.—Reg. 70c	SPL. 35c
DWARF DOUBLE RED DELICIOUS APPLE, 7/16-in.—Reg. \$1.25	SPL. 65c
BARTLETT PEAR, 1-in. cal. and up—Reg. \$1.25	SPL. 80c
CHINESE CHESTNUT, 4 to 5 ft.—Reg. \$1.00	SPL. 50c
CHINESE ELM, 3-in. cal. and up—Reg. \$4.00	SPL. \$2.50
SYCAMORE, 1 1/4-in. cal.—Reg. \$1.60	SPL. \$1.25
AMUR RIVER PRIVET, SOUTH, 2 to 3 ft., transplants—Reg. 10c	SPL. 6c
HONEYSUCKLE, PURPUREA, heavy, 2-yr., No. 1—Reg. 30c	SPL. 15c

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	Each Per 10	Each Per 100		Each Per 10	Each Per 100		Each Per 10	Each Per 100
Dark Green American Arborvitae			Pfitzer Juniper			Variegata Juniper		
18 to 24 ins.	\$1.25	\$1.00	12 to 15 ins.	\$1.25	\$1.10	18 to 24 ins.	\$1.75	\$1.50
24 to 30 ins.	1.75	1.50	15 to 18 ins.	1.70	1.50	2 to 3 ft.	2.25	2.00
30 to 36 ins.	2.25	2.00	18 to 24 ins.	2.25	2.00	Densa glauca Juniper		
3 to 4 ft.	3.00	2.50	24 to 30 ins.	2.75	2.50	2 to 3 ft.	2.00	1.75
Compacta erecta Globe Arborvitae			Pfitzer Juniper, Blue			3 to 4 ft.	2.75	2.50
12 to 15 ins.	1.25	1.00	12 to 15 ins.	1.25	1.10	Heitz glauca Juniper, staked		
15 to 18 ins.	1.50	1.25	15 to 18 ins.	1.70	1.50	2 to 3 ft.	3.00	2.75
18 to 24 ins.	1.75	1.50	18 to 24 ins.	2.25	2.00	3 to 4 ft.	4.00	3.75
24 to 30 ins.	2.25	2.00	Blue Vase Juniper			Chinese mascula Juniper		
30 to 36 ins.	2.75	2.50	15 to 18 ins.	1.70	1.50	3 to 4 ft.	3.25	3.00
Globe American Arborvitae			Pfitzer Juniper (Gold Tip)			4 to 5 ft.	4.25	4.00
12 to 15 ins.	1.25	1.00	15 to 18 ins.	1.70	1.50	Chinensis columnaris Juniper		
15 to 18 ins.	1.50	1.25	18 to 24 ins.	3.50	3.00	2 to 3 ft.	2.75	2.50
18 to 24 ins.	1.75	1.50	Pfitzer Compacta Juniper (Kallay)			3 to 4 ft.	3.75	3.50
24 to 30 ins.	2.50	2.25	12 to 15 ins.	1.25	1.10	Sylvestris Juniper		
30 to 36 ins.	3.00	2.75	15 to 18 ins.	1.70	1.50	3 to 4 ft.	3.00	2.75
Globe Parson's Compacta Arborvitae			18 to 24 ins.	2.25	2.00	Sabina Von Ehron Juniper, staked		
15 to 18 ins.	1.75	1.50	24 to 30 ins.	2.75	2.50	2 to 3 ft.	3.00	2.75
Siberian Arborvitae			Pfitzer Compacta Juniper (Nick's)			3 to 4 ft.	4.00	3.75
(Thuja wareana)			12 to 15 ins.	1.25	1.10	Scopulorum Blue Haven Juniper		
15 to 18 ins.	1.25	1.00	15 to 18 ins.	1.70	1.50	2 to 3 ft.	2.75	2.50
18 to 24 ins.	1.75	1.50	18 to 24 ins.	2.25	2.00	3 to 4 ft.	3.75	3.50
Pyramidal American Arborvitae			24 to 30 ins.	2.75	2.50	4 to 5 ft.	4.75	4.50
18 to 24 ins.	1.50	1.25	Pfitzer Nana Juniper (Armstrong)			Sparta Juniper		
24 to 30 ins.	1.75	1.50	12 to 15 ins.	1.25	1.10	2 to 3 ft.	2.75	2.50
30 to 36 ins.	2.50	2.25	15 to 18 ins.	1.70	1.50	Virginiana Juniper (Red Cedar)		
3 to 4 ft.	3.00	2.75	18 to 24 ins.	2.25	2.00	2 to 3 ft.	1.75	1.50
4 to 5 ft.	3.50	3.25	24 to 30 ins.	2.75	2.50	3 to 4 ft.	2.25	2.00
5 to 6 ft.	4.00	3.75	30 to 36 ins.	3.25	3.00	4 to 5 ft.	3.00	2.75
Baker's Arborvitae			Maney Juniper			Virginiana burki Juniper		
24 to 30 ins.	1.35	1.10	15 to 18 ins.	2.00	1.75	2 to 3 ft.	2.75	2.50
30 to 36 ins.	1.60	1.35	18 to 24 ins.	2.50	2.25	3 to 4 ft.	3.75	3.50
Berckmans Golden Arborvitae			Meyer Juniper			4 to 5 ft.	4.75	4.50
12 to 15 ins.	1.25	1.00	15 to 18 ins.	2.00	1.75	Virginiana Canaerti Juniper		
15 to 18 ins.	1.40	1.20	18 to 24 ins.	2.50	2.25	2 to 3 ft.	2.75	2.50
18 to 24 ins.	1.70	1.50	Repandens Juniper			3 to 4 ft.	3.75	3.50
24 to 30 ins.	2.25	2.00	12 to 15 ins.	1.25	1.10	4 to 5 ft.	4.75	4.50
Blue Cone Arborvitae			15 to 18 ins.	1.75	1.50	5 to 6 ft.	6.00	5.75
18 to 24 ins.	1.20	1.00	18 to 24 ins.	2.25	2.00	Virginiana Dundee Juniper		
24 to 30 ins.	1.45	1.25	30 to 36 ins.	2.75	2.50	2 to 3 ft.	2.75	2.50
30 to 36 ins.	1.70	1.50	Sabina Juniper			Virginiana glauca Juniper		
3 to 4 ft.	2.25	2.00	12 to 15 ins.	1.20	1.00	2 to 3 ft.	3.75	3.50
Bonita Arborvitae			15 to 18 ins.	1.50	1.25	3 to 4 ft.	4.75	4.50
15 to 18 ins.	1.35	1.20	18 to 24 ins.	2.00	1.75	Cupressifolia Juniper (Hillspire)		
18 to 24 ins.	1.70	1.50	Sabina horizontalis Juniper			3 to 4 ft.	3.75	3.50
24 to 30 ins.	2.25	2.00	15 to 18 ins.	1.70	1.50	4 to 5 ft.	4.75	4.50
30 to 36 ins.	2.75	2.50	18 to 24 ins.	2.25	2.00	5 to 6 ft.	6.00	5.75
Excelsa Arborvitae			Sabina tamariscifolia Juniper			Virginiana keteleeri Juniper		
24 to 30 ins.	1.45	1.25	15 to 18 ins.	1.75	1.50	2 to 3 ft.	2.25	2.00
30 to 36 ins.	1.70	1.50	18 to 24 ins.	2.00	1.75	3 to 4 ft.	3.25	3.00
3 to 4 ft.	2.25	2.00	Sabina Von Ehron Juniper			5 to 6 ft.	5.50	5.25
4 to 5 ft.	3.00	2.50	15 to 18 ins.	1.50	1.25	Fastigiata Juniper		
Fruitlandi Arborvitae			18 to 24 ins.	2.00	1.75	24 to 30 ins.	1.20	1.00
18 to 24 ins.	1.70	1.50	24 to 30 ins.	2.50	2.25	30 to 36 ins.	1.50	1.25
24 to 30 ins.	2.25	2.00	30 to 36 ins.	3.00	2.75	3 to 4 ft.	1.75	1.50
Mayhews Arborvitae			Sabina Von Ehron Juniper, globes			4 to 5 ft.	2.00	1.75
30 to 36 ins.	1.70	1.50	15 to 18 ins.	2.00	1.75	5 to 6 ft.	2.25	2.00
3 to 4 ft.	2.25	2.00	18 to 24 ins.	2.50	2.25	6 to 8 ft.	3.50	3.25
Newark Arborvitae			Sargent Juniper			Cedrus atlantica		
24 to 30 ins.	1.45	1.25	12 to 15 ins.	1.25	1.10	2 to 3 ft.	1.75	1.50
30 to 36 ins.	1.70	1.50	Virginiana globosa Juniper			3 to 4 ft.	2.75	2.50
3 to 4 ft.	2.25	2.00	15 to 18 ins.	2.75	2.50	4 to 5 ft.	3.75	3.50
4 to 5 ft.	2.75	2.50	18 to 24 ins.	3.50	3.25	5 to 6 ft.	4.75	4.50
Andorra Juniper			Virginialis Juniper			Cedrus deodara		
12 to 15 ins.	1.25	1.10	12 to 15 ins.	1.50	1.25	2 to 3 ft.	1.75	1.50
15 to 18 ins.	1.50	1.25	15 to 18 ins.	2.00	1.75	3 to 4 ft.	2.75	2.50
18 to 24 ins.	1.75	1.50	18 to 24 ins.	2.50	2.25	4 to 5 ft.	3.75	3.50
24 to 30 ins.	2.25	2.00	24 to 30 ins.	3.00	2.75	Chamaecyparis plumosa, green		
30 to 36 ins.	2.75	2.50	Ames Juniper			2 to 3 ft.	2.00	1.75
Chinensis procumbens Juniper			2 to 3 ft.	2.75	2.50	3 to 4 ft.	2.50	2.25
12 to 15 ins.	1.25	1.10	3 to 4 ft.	3.75	3.50	4 to 5 ft.	3.25	3.00
15 to 18 ins.	1.70	1.50	Excelsa stricta Juniper			Chamaecyparis plumosa aurea		
Golden Canadian Juniper			12 to 15 ins.	1.15	1.00	2 to 3 ft.	2.00	1.75
15 to 18 ins.	1.70	1.50	15 to 18 ins.	1.35	1.20	3 to 4 ft.	2.50	2.25
Heitz glauca Juniper			18 to 24 ins.	1.75	1.50	Austrian Pine		
12 to 15 ins.	1.20	1.00	24 to 30 ins.	2.25	2.00	2 to 3 ft.	2.25	2.00
15 to 18 ins.	1.45	1.30	30 to 36 ins.	3.00	2.75	3 to 4 ft.	3.25	3.00
18 to 24 ins.	2.00	1.75	3 to 4 ft.	3.50	3.25	4 to 5 ft.	4.25	4.00
24 to 30 ins.	2.50	2.25	4 to 5 ft.	4.00	3.75	5 to 6 ft.	5.50	5.25
30 to 36 ins.	3.00	2.75	Chinensis Iowa Juniper			White Pine		
Heitz glauca Juniper, globes			2 to 3 ft.	2.75	2.50	2 to 3 ft.	2.25	2.00
15 to 18 ins.	2.00	1.75	Nova Juniper			3 to 4 ft.	3.25	3.00
18 to 24 ins.	2.50	2.00	2 to 3 ft.	2.25	2.00	4 to 5 ft.	4.25	4.00
24 to 30 ins.	3.00	2.50	3 to 4 ft.	2.75	2.50	5 to 6 ft.	5.50	5.25

	Each	Each		Each	Each		Each	Each
	Per 10	Per 100		Per 10	Per 100		Per 10	Per 100
<i>Abelia grandiflora</i>			<i>Ilex crenata repandens</i>			<i>Lonicer a yunnanensis</i>		
2 to 3 ft.	\$1.25	\$1.00	12 to 15 ins.	\$1.25	\$1.00	15 to 18 ins.	\$1.20	\$1.00
<i>Anise (Illicium)</i>			15 to 18 ins.	1.50	1.25	18 to 24 ins.	1.50	1.25
2 to 3 ft.	1.50	1.25	18 to 24 ins.	2.00	1.75			
3 to 4 ft.	2.25	2.00	24 to 30 ins.	2.25	2.00	<i>Loropetalum chinensis</i>		
<i>Barberry, Julianae</i>			<i>Ilex crenata rotundifolia</i>			15 to 18 ins.	1.15	1.00
15 to 18 ins.	1.75	1.50	12 to 15 ins.	1.15	1.00	18 to 24 ins.	1.40	1.25
18 to 24 ins.	2.25	2.00	15 to 18 ins.	1.40	1.25	24 to 30 ins.	1.75	1.50
<i>Boxwood, harlandi</i>			18 to 24 ins.	1.65	1.50	<i>Magnolia alexandrina</i>		
8 to 10 ins. ....	.85	.75	24 to 30 ins.	2.25	2.00	4 to 5 ft.	3.75	3.50
10 to 12 ins.	1.15	1.00	30 to 36 ins.	3.00	2.75	<i>Magnolia glauca</i>		
12 to 15 ins.	1.40	1.25	3 to 4 ft.	4.00	3.50	2 to 3 ft.	1.75	1.50
15 to 18 ins.	1.65	1.50	<i>Ilex crenata rotundifolia, pyramids</i>			3 to 4 ft.	2.25	2.00
<i>Boxwood, sempervirens</i>			24 to 30 ins.	2.25	2.00	4 to 5 ft.	2.75	2.50
12 to 15 ins.	1.40	1.25	30 to 36 ins.	3.25	3.00	5 to 6 ft.	3.50	3.25
15 to 18 ins.	2.25	2.00	3 to 4 ft.	4.50	4.00	6 to 8 ft.	5.50	5.00
18 to 24 ins.	2.75	2.50	<i>Ilex glabra</i>			<i>Magnolia grandiflora</i>		
<i>Boxwood, welleri</i>			15 to 18 ins.	1.20	1.00	2 to 3 ft.	1.75	1.50
12 to 15 ins.	1.40	1.25	18 to 24 ins.	1.75	1.50	3 to 4 ft.	2.75	2.50
<i>Cleyera japonica</i>			24 to 30 ins.	2.25	2.00	4 to 5 ft.	3.75	3.50
15 to 18 ins.	1.20	1.00	30 to 36 ins.	2.75	2.50	5 to 6 ft.	5.50	5.00
18 to 24 ins.	1.75	1.50	<i>Ilex opaca, seedlings</i>			6 to 8 ft.	8.25	7.50
<i>Elaeagnus fruticosa</i>			2 to 3 ft.	1.75	1.50	<i>Magnolia rustica rubra</i>		
2 to 3 ft.	1.25	1.00	3 to 4 ft.	2.75	2.50	4 to 5 ft.	3.75	3.50
3 to 4 ft.	1.75	1.50	4 to 5 ft.	3.75	3.50	<i>Magnolia soulangeana</i>		
<i>Elaeagnus japonica</i>			5 to 6 ft.	5.50	5.00	2 to 3 ft.	2.00	1.75
2 to 3 ft.	1.25	1.00	<i>Ilex Croonenburg</i>			3 to 4 ft.	2.75	2.50
3 to 4 ft.	1.75	1.50	2 to 3 ft.	2.25	2.00	4 to 5 ft.	3.50	3.25
<i>Elaeagnus simoni</i>			3 to 4 ft.	3.25	3.00	5 to 6 ft.	4.50	4.00
2 to 3 ft.	1.25	1.00	4 to 5 ft.	4.25	4.00	<i>Magnolia soulangeana nigra</i>		
3 to 4 ft.	1.75	1.50	5 to 6 ft.	5.25	5.00	3 to 4 ft.	2.75	2.50
<i>Euonymus alatus compactus</i>			<i>Ilex East Palatka</i>			<i>Magnolia stellata</i>		
18 to 24 ins.	1.50	1.25	2 to 3 ft.	1.75	1.50	18 to 24 ins.	2.00	1.75
24 to 30 ins.	1.75	1.50	3 to 4 ft.	2.75	2.50	2 to 3 ft.	3.00	2.50
<i>Euonymus coloratus</i>			4 to 5 ft.	3.75	3.50	3 to 4 ft.	4.50	4.00
18 to 24 ins.	1.25	1.00	5 to 6 ft.	5.50	5.00	<i>Nandina domestica</i>		
24 to 30 ins.	1.50	1.25	<i>Ilex opaca fosteri</i>			15 to 18 ins. ....	.90	.75
30 to 36 ins.	2.25	2.00	2 to 3 ft.	2.25	2.00	18 to 24 ins.	1.20	1.00
<i>Euonymus fortunei erectus</i>			3 to 4 ft.	3.25	3.00	24 to 30 ins.	1.50	1.25
15 to 18 ins.	1.25	1.00	4 to 5 ft.	4.25	4.00	30 to 36 ins.	1.75	1.50
18 to 24 ins.	1.50	1.25	5 to 6 ft.	5.25	5.00	<i>Nandina domestica, dwarf</i>		
24 to 30 ins.	1.75	1.50	<i>Ilex howardi</i>			15 to 18 ins.	1.15	1.00
<i>Euonymus japonicus</i>			2 to 3 ft.	2.25	2.00	18 to 24 ins.	1.40	1.25
18 to 24 ins.	1.15	1.00	3 to 4 ft.	3.25	3.00	<i>Osmanthus aquifolium</i>		
24 to 30 ins.	1.70	1.50	4 to 5 ft.	4.25	4.00	18 to 24 ins.	1.50	1.25
30 to 36 ins.	2.25	2.00	5 to 6 ft.	5.25	5.00	<i>Osmanthus fortunei</i>		
<i>Euonymus patens</i>			<i>Ilex Reynolds</i>			18 to 24 ins.	1.50	1.25
18 to 24 ins.	1.20	1.00	2 to 3 ft.	2.25	2.00	24 to 30 ins.	1.75	1.50
2 to 3 ft.	1.75	1.50	3 to 4 ft.	3.25	3.00	<i>Photinia serrulata</i>		
3 to 4 ft.	2.25	2.00	4 to 5 ft.	4.25	4.00	18 to 24 ins.	1.20	1.00
<i>Euonymus radicans,</i>			<i>Ilex Taber</i>			2 to 3 ft.	1.75	1.50
several selected types			3 to 4 ft.	3.25	3.00	<i>Viburnum burkwoodi</i>		
15 to 18 ins.	1.20	1.00	4 to 5 ft.	4.25	4.00	18 to 24 ins.	1.50	1.25
18 to 24 ins.	1.50	1.25	5 to 6 ft.	5.25	5.00	24 to 30 ins.	1.75	1.50
24 to 30 ins.	1.75	1.50	<i>Ilex vomitoria</i>			30 to 36 ins.	2.25	2.00
<i>Ilex cassine angustifolia</i>			15 to 18 ins.	1.15	1.00	3 to 4 ft.	2.75	2.50
3 to 4 ft.	3.50	3.00	18 to 24 ins.	1.40	1.25	<i>Viburnum chenaulti</i>		
4 to 5 ft.	4.50	4.00	24 to 30 ins.	1.75	1.50	18 to 24 ins.	1.50	1.25
<i>Ilex cornuta burfordi</i>			30 to 36 ins.	2.25	2.00	24 to 30 ins.	1.75	1.50
15 to 18 ins.	1.20	1.00	<i>Ilex vomitoria Pride of Houston</i>			30 to 36 ins.	2.25	2.00
18 to 24 ins.	1.50	1.25	18 to 24 ins.	1.40	1.25	3 to 4 ft.	2.75	2.50
24 to 30 ins.	1.75	1.50	24 to 30 ins.	1.75	1.50	<i>Viburnum juddi</i>		
30 to 36 ins.	2.50	2.25	30 to 36 ins.	2.25	2.00	18 to 24 ins.	1.50	1.25
3 to 4 ft.	3.50	3.00	<i>Ilex vomitoria, dwarf</i>			24 to 30 ins.	1.75	1.50
<i>Ilex cornuta fending</i>			12 to 15 ins.	1.50	1.25	<i>Viburnum rhytidophyllum</i>		
15 to 18 ins.	1.20	1.00	<i>Jasmine, floridum</i>			18 to 24 ins.	1.75	1.50
18 to 24 ins.	1.50	1.25	15 to 18 ins.	1.20	1.00	24 to 30 ins.	2.00	1.75
24 to 30 ins.	1.75	1.50	18 to 24 ins.	1.50	1.25	30 to 36 ins.	2.50	2.25
30 to 36 ins.	2.50	2.25	2 to 3 ft.	1.75	1.50	3 to 4 ft.	3.25	3.00
<i>Ilex cornuta Hume</i>			<i>Laurel, Cherry</i>			4 to 5 ft.	4.50	4.00
15 to 18 ins.	1.50	1.25	2 to 3 ft.	1.50	1.25	<i>White Dogwood</i>		
18 to 24 ins.	1.75	1.50	3 to 4 ft.	1.75	1.50	2 to 3 ft.	1.20	1.00
24 to 30 ins.	2.25	2.00	4 to 5 ft.	2.50	2.25	3 to 4 ft.	1.75	1.50
30 to 36 ins.	2.75	2.50	5 to 6 ft.	3.50	3.00	4 to 5 ft.	2.25	2.00
<i>Ilex cornuta rotunda</i>			6 to 8 ft.	5.00	4.50	5 to 6 ft.	3.50	3.00
12 to 15 ins.	1.50	1.25	<i>Laurel, English</i>			<i>White Dogwood (Cherokee Princess)</i>		
<i>Ilex crenata convexa</i>			15 to 18 ins.	1.25	1.00	3 to 4 ft.	2.75	2.50
12 to 15 ins.	1.00	.80	18 to 24 ins.	1.50	1.25	4 to 5 ft.	3.75	3.50
15 to 18 ins.	1.25	1.00	2 to 3 ft.	1.75	1.50	<i>Pink Dogwood</i>		
18 to 24 ins.	1.75	1.50	<i>Laurel, Zabeli</i>			2 to 3 ft.	1.75	1.50
24 to 30 ins.	2.25	2.00	15 to 18 ins.	1.20	1.00	3 to 4 ft.	2.75	2.50
<i>Ilex crenata hetsi</i>			18 to 24 ins.	1.75	1.50	<i>Live Oak, B&B</i>		
12 to 15 ins.	1.20	1.00	2 to 3 ft.	2.50	2.25	3 to 4 ft.	2.75	2.50
15 to 18 ins.	1.75	1.50	<i>Ligustrum lucidum (Black Wax)</i>			<i>Silver Maple, B&B</i>		
<i>Ilex crenata latifolia, pyramids</i>			18 to 24 ins.	1.20	1.00	6 to 8 ft.	2.00	1.50
18 to 24 ins.	1.75	1.50	24 to 30 ins.	1.50	1.25	8 to 10 ft.	2.50	2.00
24 to 30 ins.	2.25	2.00	30 to 36 ins.	1.75	1.50	10 to 12 ft.	3.00	2.50
30 to 36 ins.	3.25	3.00	<i>Ligustrum lucidum Suwannee River</i>					
3 to 4 ft.	4.50	4.00	15 to 18 ins.	1.15	1.00			
			18 to 24 ins.	1.40	1.25			
			24 to 30 ins.	1.65	1.50			
			30 to 36 ins.	2.00	1.75			

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forum and conduct the remarks on new, rare and choice plant materials which will be on display.

Bill Schoenfeld, Germain's, Inc., Los Angeles, is in charge of the trade fair for exhibits of new products or educational exhibits, a feature of the course, the theme of which is "Sales and Management."

KENTUCKY SUMMER DATES

According to Howard G. Tilson, secretary of the Kentucky Nurserymen's Association, the annual summer meeting of the association has been scheduled for June 19 to 21. Headquarters will be at the Ken-Lake hotel, Kentucky Lake state park, Hardin, Ky.

CANADA'S SUMMER DATE

A summer date (July 9 to 12) has been set for the 38th annual meeting of the Canadian Association of Nurserymen—a new departure for the group especially favorable to the concept of combining business with pleasure. Members are invited to take their families with them to the convention headquarters at the Hotel Vancouver, Vancouver, B. C., and take advantage of the recreational opportunities offered in scenic western Canada. A well-rounded program of practical interest to all members is promised by David Hunter, general convention chairman.

ILLINOIS SHORT COURSE

The fifth annual short course of the Illinois State Nurserymen's Association will be held at the Morton Arboretum, Lisle, Ill., August 1 to 3. Plans include a tour of the arboretum, visits to several northern Illinois nurseries and observation of some of the well-executed landscape plantings in the Chicago area.

MARYLAND A HOST

The Maryland Nurserymen's Association will serve as co-host with the Virginia Nurserymen's Association for the annual convention of the American Association of Nurserymen, to be held July 15 to 20 at the Statler Hilton hotel, Washington, D. C. No separate summer meeting has been scheduled by the Maryland group this year, according to Thomas T. Adams, executive secretary of the M. N. A.

VIRGINIA MEETING

The Virginia Nurserymen's Association will not hold its usual summer tour this year, according to

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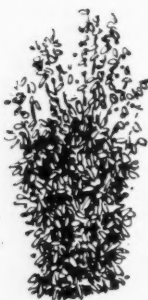
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EMERALD PRIDE
Plant Patent 1073



EMERALD CUSHION
Plant Patent 1112

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Charles L. Otey, Richmond, secretary-treasurer. Instead, the association will hold a business meeting July 17 in the Pan-American room of the Statler Hilton hotel, Washington, D. C., during the annual convention of the American Association of Nurserymen. The Virginia group is a co-host with the Maryland nurserymen for the national trade meeting.

MICHIGAN CONFERENCE

Dates for the Michigan nursery and landscape conference this year have been announced as July 25 and 26 by Harold Davidson, of the department of horticulture at Michigan State University, East Lansing, Mich. Sessions will be held at the Kellogg Center on the university campus.

ILLINOIS TURF DAY

July 27 has been set as the date of the Illinois turf grass field day to be held at the Urbana campus of the University of Illinois, according to a recent announcement by Harleigh R. Kemmerer, assistant professor of horticulture at the university.

MASSACHUSETTS MEET

Headquarters for the summer meeting of the Massachusetts Nurserymen's Association will be at the establishment of H. V. Lawrence, Inc., Falmouth, Mass. The meeting has been scheduled for August 2, according to Richard S. Guild, executive director of the association.

NEW ENGLAND DATE

August 17 has been set for the summer meeting of the New England Nurserymen's Association, according to Earl Herrick, secretary. The location again will be the Boulevard Nurseries, Newport, R. I.

SOUTHERN DATES

August 6 to 8 are the dates recently announced for the 62nd annual convention of the Southern Nurserymen's Association. The Hotel Peabody, Memphis, Tenn., will be headquarters for the sessions, according to D. P. Henegar, executive secretary.

SHADE TREE CONVENTION

The 37th annual convention of the National Shade Tree Conference will be held August 20 to 25, it was recently announced by Gregory

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Dick Boonstra of Wayside stated, "The root system of these Veronica plants was bigger and more impressive than we had gotten from substantially earlier propagations involving clay pots." Wayside Gardens are very pleased with this use of Jiffy-Pots and will go into it on a larger scale next year.



Owen Blackwell, Semmes, Alabama, left. This Azalea Red Wing that Owen is holding was carried in a cold frame from August to February and then benched in peat moss beds in the plastic house. Owen says, "All of our Azaleas will be handled in Jiffy-Pots because we can grow a larger plant in less time."



Charles Kempenaar of Boulevard Nurseries, Newport, R. I., is holding a Thuja Nigra that has been lined out in the field for 2 years after only 3 months in a Jiffy-Pot. Note the heavy root system and fine top growth.



Jack Hill, D. Hill Nursery, Dundee, Ill., showing a Hybrid Lilac making fine root growth through the walls of a 2 1/4-inch Jiffy-Pot. Cuttings taken in June are Jiffy-Potted in July, and 20 days later placed in the field, saving one year over the old method using conventional pots.

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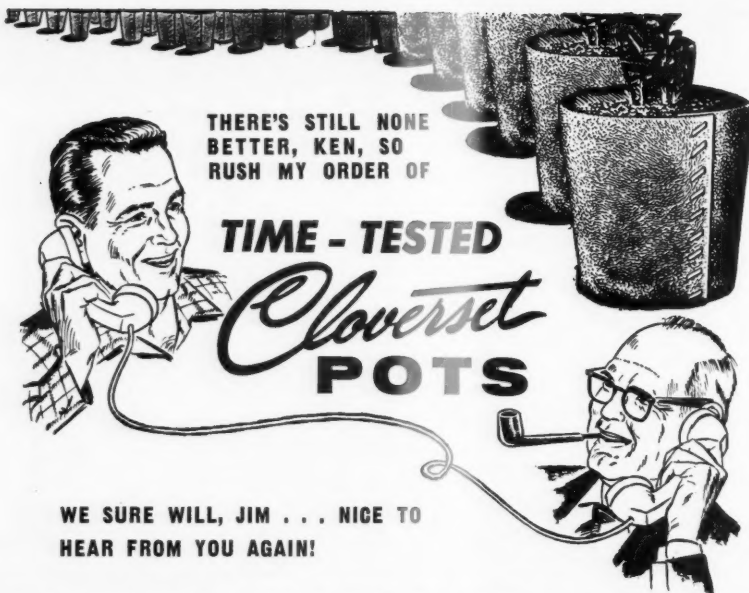
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No. 0	5 1/2 ins.	5 ins.	6 ins.	200	216 lbs.	\$4.25	\$40.00	F.O.B. Kansas City
No. 1	6 1/2 ins.	6 ins.	7 ins.	100	340 lbs.	5.25	50.00	
No. 2	9 1/2 ins.	7 ins.	8 ins.	100	535 lbs.	5.75	55.00	
No. 3	9 ins.	8 ins.	9 ins.	100	600 lbs.	6.25	60.00	
						25 pots, \$7.70; 50 pots, \$14.60; 75, \$21.75; 100, \$26.15; 1000, \$231.00.		
No. 4	13 ins.	12 ins.	25	133 lbs.			

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CITYZONE.....STATE.....

J. Lucking, Minneapolis park board, general chairman of the event. The association, of which Dr. J. C. Carter, Illinois Natural History Survey, Urbana, Ill., is president, and Dr. L. C. Chadwick, horticulture department, Ohio State University, Columbus, O., is secretary, will hold its sessions at the Leamington hotel, Minneapolis, Minn.

Among those assisting Mr. Lucking with preparations for the convention are Howard I. Moore, superintendent of parks, Minneapolis, honorary chairman, and Carl L. Holst, assistant horticulturist, Minneapolis park board, vice-chairman.

LANDSCAPE MEN MEET

An outdoor commercial exposition covering two acres will be an innovation at the 62nd annual meeting of the American Society of Landscape Architects, to be held July 10 to 12 at the Harvest House hotel, Boulder, Colo. Sam L. Huddleston, Denver, Colo., is convention chairman of the Rocky Mountain chapter, which will host the convention.

WINS FIELD SCHOLARSHIP

Donald B. White, student in the department of horticulture at the Iowa State University, Ames, was awarded the \$600 Henry Field Seed & Nursery Co. scholarship for 1961. The award, made annually to students in the departments of botany and horticulture, is based on scholarship, leadership qualities and character. The scholarship was established by the Shenandoah, Ia., firm in 1959 as an incentive to encourage and assist students majoring in horticulture and plant sciences. Mr. White, currently working on problems of dwarfing fruit and ornamental plants at Iowa State, will complete his work this spring. He will assume teaching and research responsibilities in turf and ornamentals in the department of horticulture at the University of Minnesota, July 1, 1961.

FINAL attendance figures announced for the third annual world flower and garden show held recently at Chicago's new lake-front convention center, McCormick Place, are 293,258. Being publicized is the fact that this number sets a new top record for attendance at any flower show in the United States.

CARL JONES has opened My Florist & Nursery at 5009 Kostoryz, Corpus Christi, Tex.

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Pennsylvanians Discuss Weed and Pest Controls

By Robert P. Meahl

After the opening day's program, February 21, devoted to talks on business management, research findings and garden store operation, as reported in the March 15 issue of the American Nurseryman, attendants at the annual Pennsylvania nurserymen's conference at University Park, Pa., heard speakers on two following days on a variety of topics. Wednesday, the second day, there were talks on plants deserving greater consideration; university campus plant collections; turf problems; sources of business capital, and production of seedlings, liners and quality trees. The concluding day's program included addresses on weed control, control of plant pests and diseases and regulations for pest control.

Donald Wyman, Arnold Arboretum, Jamaica Plain, Mass., the first speaker of the Wednesday session, discussed "Some New and Better Woody Ornamental Plants." He distributed a list of the better plants, pointed out the outstanding qualities of several of them and illustrated these with colored slides.

Campus Collection

The next speaker was Walter W. Trainer, head, division of landscape planning, the Pennsylvania State University, replacing George Tuoti, Tuoti Landscape Co., Ridgefield, Conn., on the program. Mr. Tuoti was unable to be present because of illness. Mr. Trainer discussed "Building an Ornamental Plant Collection on the Campus." He said there were 673 species and varieties of woody plants on the campus, represented in 6,553 trees and 52,337 shrubs. New species are added as new buildings are landscaped, to test them for adaptability and suitability for central Pennsylvania conditions. The plant collection serves as a laboratory for students in plant materials and also for visitors to observe how plants can be used in good landscape combinations. Mr. Trainer showed, with colored slides, how various plantings of the campus appeared throughout the year.

"Common Turf Problems and Their Remedy" was discussed by John C. Harper II, extension agronomist. A summary of his address

appears as a separate article elsewhere in this issue.

Obtaining Funds

John H. Truby, president of the First National Bank of State College, spoke on "Getting Working Capital and Short-term Loans." He said if the local banker is on his toes he can and will provide financial help to nursery businessmen in their work. Young people often do not inquire regarding the interest rate when seeking a loan to finance a purchase. Mr. Truby said there is a difference on interest rates between various types of lending agencies.

When starting out in business, the individual should contact the local banker, preferably having a mutual friend introduce them. The reason for the loan should be explained. The banker will wish to know where the applicant works and has worked.


If people who know him give good recommendations, a loan is usually granted.

For amounts of \$500 to \$1,000, a personal loan is granted if the individual has steady work. For amounts over \$1,000, a financial statement is required and a determination of what collateral is available. Preference in collateral in order is real estate, stocks and bonds, life insurance with cash surrender value and an ordinary promissory note co-signed or endorsed.

In loans for the purchase of real estate, the property must be approved. In addition, the banker needs to learn the know-how of the individual. Mr. Truby urged the payment of notes when due. However, in cases where accounts payable are not received when expected and one is unable to meet the note payment, one should not just wait, but rather go to the banker and explain the situation so he will not think the note is being ignored.

Starting Stock

"Seedling and Liner Production" was the topic discussed by Richard C. Bedger, Musser Forests, Inc., Indiana, Pa. In quality seedling production, the ratio of roots to top is highly important. The plant must



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2-yr., S., 9 to 12 ins.	8.00	70.00	300.00
2-yr., S., 12 to 18 ins.	10.00	90.00	400.00
3-yr., T., lightweight, 18 to 24 ins.	27.50	240.00
4-yr., T., heavy, 12 to 15 ins.	25.00	225.00	.....
4-yr., T., heavy, 15 to 18 ins.	30.00	275.00
4-yr., T., heavy, 18 to 24 ins.	35.00	325.00
4-yr., T., heavy, 2 to 2½ ft.	37.50	350.00

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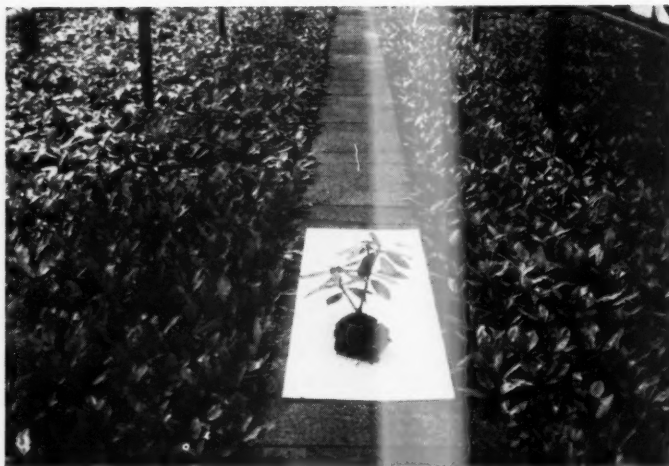


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**HARDY NATIVE
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TREES, SHRUBS AND EVERGREENS**

See the February 1 issue for complete list.

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

have enough roots to hold it firmly in the ground and support the top. The size must be normal for the species and must be in relation to the area to be planted. Seedlings in the seedbed will vary in size; thus they should be graded.

Several factors will affect quality. Seed source is highly important, for some plants produce better seeds than others. Vitality of seeds may seem to be satisfactory from high-germination tests, but sometimes the seedlings are weak and get a poor start. It may be necessary to add organic matter to the soil in order to provide the proper condition. Soil fertility is a must. It is best to rotate planting areas and keep one third in cover crops each year and use supplemental fertilization. Spacing should vary with the species; plant pine and spruce 40 to 50 per square foot; hemlock, 35 to 40, and hardwoods and shrubs, 20 to 25.

Seedlings should be undercut in the fall with a blade. They are left in place and irrigated. In the spring the seedlings are dug, and at Musser's they are crated and stored if dug before growth starts. Use of a humidifier in the grading room will help keep the plants from drying out. Wirebound crates are used for packing, along with peat moss and paper. Rutex has been used on the roots in storage.

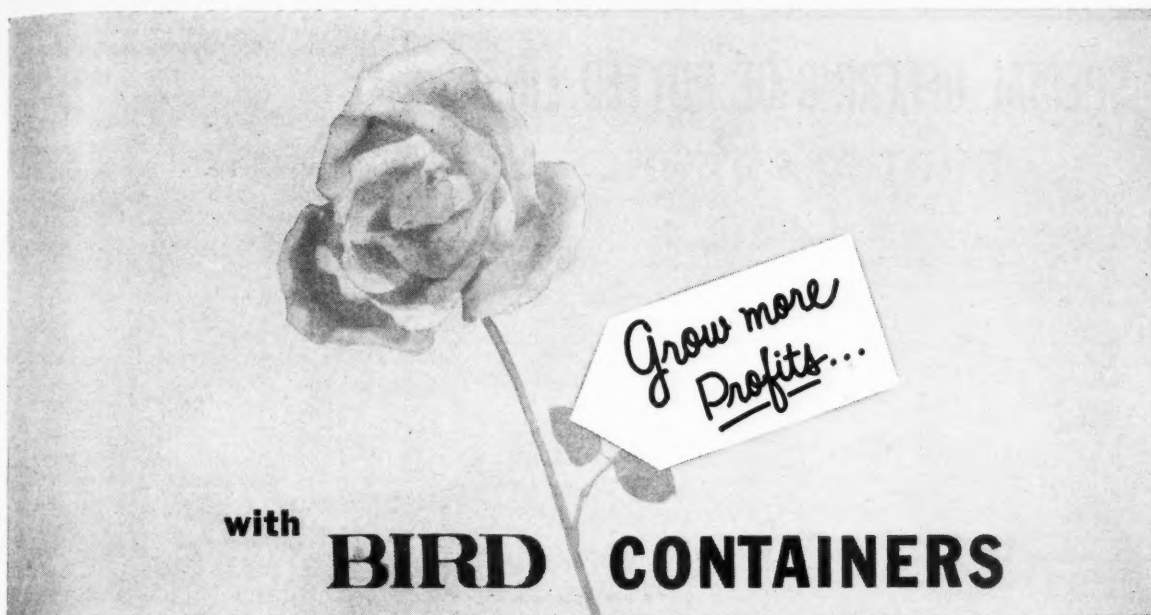
Disease and insect control is highly important. Shipments may need to be certified for freedom from Japanese beetles; for this apply dieldrin in the soil, using a spreader. For the pine-shoot moth, spray pines with DDT and malathion the first week in July, then make a second spraying 10 days later and a third one 10 days after that. Malathion is used for the control of red spiders.

In figuring the costs affecting production, one often forgets many items, such as buildings, equipment and irrigation. The only way to determine the proper price is to know the real cost of production.

William Flemer III, Princeton Nurseries, Princeton, N. J., spoke on "Producing Quality Trees." The

At the banquet Wednesday evening, Dr. Russell E. Larson, head, department of horticulture, gave an illustrated talk on "Six Months in Mexico." Dr. Larson had recently returned from a visit to Mexico, during which he traveled over the country, looking for plants that might be used in horticultural crop improvement.

The Thursday morning session opened with a discussion of "Weed



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Acer palmatum Bloodgood	5.00	40.00	10 to 15 ins.	5.00	40.00
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2 1/4-in. pot-grown	16.50	150.00
Lots of 3000		145.00
Hedera helix, 2 1/4-in. pot-grown	12.50	115.00
Hedera helix baltica, 2 1/4-in. pot-grown	13.00	120.00
Hedera helix gracilis, 2 1/4-in. pot-grown	13.00	120.00
Euonymus fortunei radicans, 2-yr., field-grown	25.00

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Narberth, Pa.

Control in the Nursery," by Chiko Haramaki, assistant professor of ornamental horticulture, and Ian Mackay, Conard-Pyle Co., West Grove, Pa. Mr. Haramaki listed several herbicides which had shown promise and gave the suggested concentrations. He warned that these were not recommendations, however, but merely suggestions that might be used on a limited scale.

Weed Control Programs

Mr. Mackay reported on the weed control program as carried on by the Conard-Pyle Co. Before planting, methyl bromide is used; after planting, neburon or Simazine, and after harvest, amino triazole or amine 2,4-D. For potting soils, methyl bromide is used at the rate of one pound per cubic foot. Lining-out beds, to be used in late August or September, are also treated with methyl bromide at least three weeks before planting. After planting, lining-out beds are treated with neburon in October and March and again the following October and March with four pounds active per acre at each treatment. After harvest, amino triazole, at the rate of 12 pounds active per acre, is used.

In evergreen fields, before planting, EDB (ethylene dibromide) is used for nematodes at the rate of eight gallons per acre. One week after planting, 60 pounds of 4 per cent granular Simazine per acre is applied. Additional treatments are given in March and October (two and one-half pounds active per acre) until plants are harvested. After harvesting, amino triazole is used.

For rose fields, EDB is applied in June the year before planting. In late May to June, after planting, the hilling is leveled and 60 pounds of 4 per cent Simazine per acre is applied. In November the plants are hilled up, but no chemical is added. In April the hilling is leveled and Simazine again applied.

In grasslands (cover crops) amine 2,4-D is used, one pint to an acre, twice per season. Soil for container-grown stock is treated with methyl bromide before planting.

Plant Disease Controls

Dr. Spencer Davis, extension plant pathology, Rutgers University, New Brunswick, N. J., speaking on "Effective Plant Disease Control," said that often nurserymen are not particularly interested in noninfectious virus diseases and their control or in resistant varieties, even


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CHLOROBENZILATE Miticide

Controls two-spotted mite on roses; spruce mite on spruce, arbor vitae, hemlock; two spotted mite on taxus, azalea; Southern red mite on holly; clover mite on turf and shrubbery. Safe, effective, long residual, economical. Non-irritating to skin.

DIAZINON Insecticide

Residual phosphate insecticide. Controls bagworms on arbor vitae and juniper; privet mites on azalea, aralia and ivy; aphids and bud mites on carnations; aphids and bud moths on holly; chinch bugs, chiggers, lawn moths and fleas in turf.

SIMAZINE Pre-emergence Herbicide

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(*Packed 10 per special strong shipping crate)
2. Heavy, 1-yr. transplants (ideal for lining out):
\$20.00 per 10; \$40.00 per 25; \$150.00 per 100; \$337.50 per 250.
3. Transplants in 3-in. peat moss pots (rooted August, 1960, potted October, 1960):
\$12.00 per 8; \$30.00 per 25; \$100.00 per 100; \$225.00 per 250.



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though good methods of control are already available. He suggested that too many are impressed by the high-priced, difficult to use chemicals, which require special equipment, just because they are new. Often these have not been tested sufficiently to determine if they are effective or if they will cause plant damage.

He suggested two pounds of Feramate to 100 gallons of water, applied in the spring before growth starts, for azalea gall; ferbam for fire thorn scab, applied in mid-April, late April and early May. For azalea petal blight, two applications of zineb 10 days apart, in April and again in October, were recommended. Canker on cuttings can be controlled by using ferbam 1/4 to 1/2 per cent at the rate of one pound to 400 pounds of propagation medium. Soil sterilization can be obtained by using methyl bromide—two pounds to 100 square feet. Among the newer materials is phaltan, which has proved effective against mildew and black spot on roses.

Nursery Insect Controls

"Nursery Insects and Their Control" was discussed by Lloyd E. Adams, extension entomologist. He said systemics hold considerable in-

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This is an origination of the late Mike Sebian's nursery, Painesville, Ohio. It has proved hardy and has a fast rate of growth. We feel this variety is one of the best for the mid-western states.

	Per 100	Per 1000
2-yr., T.	30c	27 1/2c
3-yr., T.	40c	37 1/2c

Write for price of 5000 and 10,000 quantity.

Samples sent upon receipt of postage.

VERKADE'S NURSERIES

P. O. Box 336

New London, Conn.

CANADIAN HEMLOCK BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.00
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.00	100.00

Well-rooted, carefully collected seedlings. Puddled and packed in sphagnum moss. Cash with order.
Trade list on request

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QUALITY LINERS

WILSEY EVERGREEN NURSERY

Corfu, N. Y.

Phone: East Pembroke 6411
Located Near Indian Falls

IF YOU'RE LOOKING
FOR QUALITY
EVERGREEN SEEDLINGS
OR
CUT CHRISTMAS TREES

Why not write today —

SCHROTH'S NURSERY

R. D. 2

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VAN STEYN'S NURSERY

1167 Preakness Ave.
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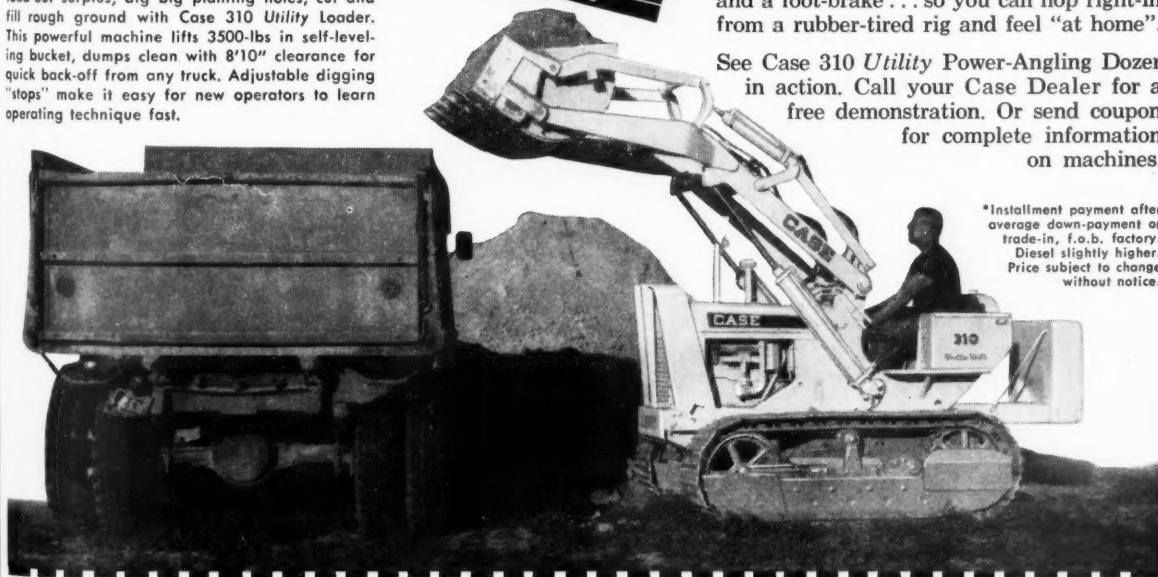
How to save man-time on heavy dirt work...expand your landscaping service



DIGGING • LIFTING
HANDLE WITH CASE
Utility
LOADING • CARRYING

¾-YD CRAWLER LOADER

Dig and load topsoil, peat or fill, cut grades and load-out surplus, dig big planting holes, cut and fill rough ground with Case 310 Utility Loader. This powerful machine lifts 3500-lbs in self-leveling bucket, dumps clean with 8'10" clearance for quick back-off from any truck. Adjustable digging "stops" make it easy for new operators to learn operating technique fast.



*Installation payment after average down-payment or trade-in, f.o.b. factory. Diesel slightly higher. Price subject to change without notice.

J. I. CASE CO., Dept. D1611, Racine, Wisconsin

Send information on Utility machines:

☐ 310 Power-Angling Dozer ☐ 310 Loader

☐ Other

Name Address

Position City

Company State

CASE *Utility*

CU-D-274

If your landscape jobs frequently involve grading rough land, clearing, and stripping soil, you can drastically reduce the man-hours and cost of preparing fine finish grades with a Case 310 Utility Power-Angling Dozer. This husky, *low-cost* crawler gives you "muscle" to move lots of dirt in a hurry ... and to dig hard ground you couldn't handle with a light-duty rubber-tired rig. It will also allow you to offer a complete one-stop "packaged" landscape service — from raw land to finished planting — and will increase your potential for sales of sod, shrubs, fertilizer and garden merchandise.

For as little as \$256 per month*, Case 310 gives you up to 5815 lbs push-power for digging and pushing big blade-loads of earth. The wide-mount 92" hydraulically-controlled blade cuts sharply ... may be angled on-the-go to 25° left or right to carry and spread dirt exactly where you want it. Smooth-feathering controls make it simple to prepare precisely graded surfaces. Exclusive "float" valve-control lets you "drift" dirt into low spots and to "back-blade" finished grade to a table-smooth surface. Wide selection of rear tools gives you multiple-job versatility. And this is the *only* Utility-size crawler that has both a foot accelerator and a foot-brake ... so you can hop right-in from a rubber-tired rig and feel "at home".

See Case 310 Utility Power-Angling Dozer in action. Call your Case Dealer for a free demonstration. Or send coupon for complete information on machines.

WESTERN MAINE Forest Nursery Co.



Growers of hardy, guaranteed-to-live

TRANSPLANTED EVERGREENS

TRANSPLANTS

	Per 1000
Douglas Fir, 2-yr. transplants (2-1), 3 to 6 in.	\$ 65.00
Scotch Pine (Austrian Hill) 3-yr. transplants (2-1), 4 to 10 in.	60.00
Scotch Pine (Spanish), 2-yr. transplants (2-1), 4 to 10 in.	60.00
White Pine, 4-yr. transplants (2-2), 6 to 10 in.	75.00
Colorado Blue Spruce, 5-yr. transplants (2-3), 8 to 15 in.	140.00
Norway Spruce, 5-yr. transplants (2-3), 8 to 15 in.	80.00
Norway Spruce, 4-yr. transplants (2-2), 6 to 12 in.	70.00
White Spruce, 4-yr. transplants (2-2), 5 to 10 in.	70.00

SEEDLINGS (Not Guaranteed)

Douglas Fir, 3-yr. seedlings (3-0), 3 to 6 in.	25.00
Fraser Fir, 3-yr. seedlings (3-0), 3 to 6 in.	30.00
Japanese Black Pine, 3-yr. seedlings (3-0), 5 to 10 in.	30.00
Norway Red Pine, 3-yr. seedlings (3-0), 4 to 8 in.	25.00
Scotch Pine (North German), 3-yr. seedlings (3-0), 8 to 12 in.	20.00
White Pine, 3-yr. seedlings (3-0), 5 to 10 in.	30.00
Colorado Blue Spruce, 3-yr. seedlings (3-0), 5 to 10 in.	40.00
Norway Spruce, 3-yr. seedlings (3-0), 3 to 5 in.	25.00
European Larch, 3-yr. seedlings (3-0), 6 to 10 in.	25.00

TERMS

Cash with order; or one-half cash with order, balance C.O.D. All prices F.O.B. Fryeburg, Maine, net; no discounts. 250 trees of any one kind and size at the 1000 rate. For less than 250 of one kind, ask for retail price list. No extra charge for boxes or packing.

OUR GUARANTEE

90 PER CENT OF ALL TRANSPLANTS SOLD at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1961. (Seedlings not guaranteed.)

If they are grown in Maine they will grow anywhere. Several other varieties of transplants available.

Write or phone for complete list of stock.



Harold Eastman

Dept. AN421

WESTERN MAINE Forest Nursery Co.

Fryeburg, Maine



Harry Eastman

Telephone:
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ROSEBUSHES

For Spring Sales

Quality

Properly grown, carefully dug and graded, stored under ideal conditions to bring your roses to you with the highest degree of vitality.

Service

Storage, in our new, modern, cold storage, until you want them, printed labels for each bush, growing helps, colored pictures, at cost, to help you sell.

Satisfaction

That you are supplying your customers the best available.

Write for your copy of our descriptive list and prices.

Somerset Rose Nursery, Inc.

P. O. Box 608

New Brunswick, N. J.

terest as a new method of controlling insects, but actually these had been tried many years ago, using such materials as arsenic, Bordeaux mixture, sodium selenate, sodium selenite and rotenone.

Among the newer systemics are the following: Demeton (Systox) is good on cotton, greenhouse crops and vegetables. It remains toxic in the plant from one to three weeks and is used mainly as a foliage spray. Phosdrin kills a smaller variety of insects than demeton and does not last so long, usually not more than three days. It is used on food crops before harvesting. Phorate (Thimet) is recommended for nursery crops for leaf miner on birch and box. It can be applied broadcast on each side of the row. It is converted into another chemical, which does the killing. The release of the killing chemical extends over a long period. Usually one application per year is sufficient for nurseries.

Other systemics include schradan, highly toxic and probably limited for use; phosphamidon, showing some promise on some woody plants and toxic to gypsy moth; sodium selenate, now less used, since it is too stable and lasts too long, so soil cannot be used for food crop production, and Di-syston, effective against several chewing and sucking insects, but usually used on seeds, since it has shown some toxic effect on plants.

Why are systemics being used? The future looks promising, according to Mr. Adams. Systemics move in the plants and continue to move as the plant grows. One application may be sufficient.

Although phorate has been effective, it should be used only in commercial growing and not on home grounds. It has a strong, disagreeable odor that makes it objectionable for home use. This odor also creates a storage problem.

Regulations for Control

The concluding talk was "Plant Pest Control Regulations," by Mac A. Campbell, supervisor, plant pest control division, United States Department of Agriculture. In Pennsylvania, the main regulations having application are those regarding black stem rust of wheat and barley, and Japanese beetles. Barberries susceptible to the rust must be destroyed whenever found. New rules have been established for moving nursery stock from Pennsylvania to areas outside the Japanese beetle zone. Shipments will be permitted (1) when in the judgment of

"SLIP-ON" PLASTIC LABELS

NEWEST AND MOST PRACTICAL OF ALL PLANT LABELS!

SO NEW!
SO PRACTICAL!

16 times stronger in sub-zero temperatures

Patent No. 2,642,684

Patented locking device assures you a permanent, easily attached, adjustable label. Minimizes girdling the canes of either soft or hard wood plants. Guards against loss of labels. Absolutely waterproof. Will not wilt in hot weather.


Plain or varieties imprinted permanently

Add \$2.00 to imprinted prices if imprinting is desired on both sides. Trade-marks billed at cost. Photos or black-and-white drawings must accompany trade-mark orders. Parcel-post shipment up to 20 lbs. Over 20 lbs., least expensive way possible—unless otherwise specified. All shipments F.O.B. DAYTONA BEACH, FLA.

Available in 6 fadeproof colors . . . RED, GREEN, ORANGE, YELLOW, BLUE, WHITE

No.	Size	Per 1000	Imprinted Per 1000	Weight
No. 25	1/2x5 ins.)			
1000 to 4000		\$5.50	\$7.00	
5000 to 9000		4.75	6.25	1 1/4 LBS.
10,000 to 49,000		4.00	5.50	
50,000 to 99,000		3.25	4.75	PER 1000
100,000 or more		2.50	4.00	
No. 87 or 87C	5/8x7 ins.)			
1000 to 4000		7.50	9.00	
5000 to 9000		6.50	8.00	2 1/4 LBS.
10,000 to 49,000		5.50	7.00	
50,000 to 99,000		4.75	6.25	PER 1000
100,000 or more		4.00	5.50	
No. 47 or 47C	3/4x7 ins.)			
1000 to 4000		8.50	10.00	
5000 to 9000		7.50	8.75	3 LBS.
10,000 to 49,000		7.00	7.75	
50,000 to 99,000		6.25	7.00	PER 1000
100,000 or more		5.50	6.25	

87C and 47C in the above price list indicates "V" notch.

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ENCLOSED FIND \$.....FOR WHICH YOU MAY SHIP
THE FOLLOWING ITEMS CHECKED BELOW BYEXPRESS;
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CITY..... ZONE..... STATE.....

STREET NO..... R.F.D..... BOX.....

SHIPPING POINT..... COUNTY.....

PLASTIC "SLIP-ON" LABELS (if different from post office)

SIZE	QUANTITY	IMPRINT NAME & ADDRESS	IMPRINT VARIETIES	IMPRINT TRADE-MARK	PRICE
NO. 25					
NO. 87					
NO. 87C					
NO. 47					
NO. 47C					

IMPRINT MY "SLIP-ON" LABELS AS FOLLOWS:

*A VARIETY LIST IS ENCLOSED.....(yes or no). Made in U. S. A.



"SLIP-ON"®
E-Z LABEL

Fast application.
Heavy duty. Double
strength. Water-
proof. Fadeproof.
Red, green, yellow,
orange, blue, white.



WETPROOF
PENCILS

Especially for use on
plastic labels. Ac-
cepted by most nurs-
erymen and growers
as a standard. \$1.00
per dozen.



TY-ON AND
STICK-IN
PLASTIC LABELS

Durable, waterproof.
6 fadeproof colors.
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NO. 2

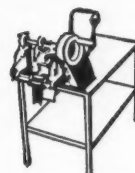
Designed to minimize
lost labels in FIELD
and STORAGE. It is
quickly applied and
will accommodate
Canes up to 3/4 inch.

Single Red
HIBISCUS

98¢

GARDEN MARKERS

All-aluminum tube
stake 3 ft. long,
5 1/2x7-in. plastic in-
sert card plus 2x7-in.
interchangeable plas-
tic pricing card.
\$1.04 each.



IMPRINTING
MACHINES

Imprints permanent-
ly 9000 plastic labels
per hour. Automatic,
compact. Rugged de-
sign. Terms avail-
able.

PINUS THUNBERGI LINERS AND FINISHED STOCK BLACK PINE

	Per 1000
1-yr., S., 3 to 5 ins.	\$ 30.00
2-yr., S., 6 to 10 ins.	50.00
3-yr., S., 15 to 20 ins.	75.00
4-yr., S., 18 to 24 ins.	150.00
3-yr., T., 12 to 18 ins.	250.00
4-yr., T., 18 to 20 ins.	500.00
5-yr., T., 24 to 30 ins.	1000.00
	Each
2 to 3 ft., sheared, B&B	\$ 4.00
3 to 4 ft., sheared, B&B	7.50
4 to 5 ft., sheared, B&B	10.00
5 to 6 ft., sheared, B&B	12.50
6 to 8 ft., sheared, B&B	20.00

Our Black Pine are grown from a Northern Japan
Compact strain and are very dark green in color.

BAIER LUSTGARTEN

Jericho Turnpike, Middle Island, L. I., N. Y.

Phone: Yaphank 4-3444
Long Island's Largest Nurseries
WRITE FOR CATALOG

JOS. A. HREN NURSERIES

BLACK PINE

4 to 5-yr., heavy liners of our own compact strain.
8 to 10 ins., T., \$35.00 per 100
10 to 12 ins., T., \$50.00 per 100

LANDSCAPE-SIZE MATERIALS — Catalog

East Hampton, L. I., N. Y.

Phone: EA 4-0640

SPECIMEN ILEX CONVEXA

One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

2½ to 3 ft.	\$4.75
3 to 3½ ft.	5.75
3½ to 4 ft.	6.75
4 to 4½ ft.	9.00

ANGELICA NURSERIES

R. D. No. 1

Mohnton, Pa.

TAXUS LINERS

4 and 5-yr., twice transplanted.

Write for list and prices.

A. N. PIERSON, INC.
Cromwell, Conn.

BEAUTIFUL SPREADING YEW

12 to 15 ins., B&B	Each \$2.00
18 to 24 ins., B&B	3.50

SAM DIBLE NURSERY
Shelosta, Pa.

the inspector the plants were not exposed to the beetle; (2) when examined by the inspector and no beetles are found; (3) when treated by methods known to be effective under the observation of the inspector, or treated under the directions of the inspector, and (4) when grown or handled in such a manner that, in the judgment of the inspector, no infestation would take place.

CORNELL STUDENTS ABROAD

The William Frederick Dreer scholarship for 1961 has been awarded to M. Noble Holmes, Jr., New Britain, Conn., a senior in the department of floriculture and ornamental horticulture at Cornell University, Ithaca, N. Y. Mr. Holmes plans to spend one year studying nursery management and practices in England and the Netherlands. In England, with headquarters at Kew and the Royal Horticultural Society's gardens at Wisley, he will visit the outstanding nurseries, concentrating on plant materials, propagation and methods of handling nursery stock. In the Netherlands he will be centered at the Boskoop experiment station, where he will be concerned with problems of production of super-quality nursery crops.

The William Frederick Dreer scholarship, established according to the will of Miss Augusta N. Dreer, provides \$2,500 to furnish worthy students specializing in floriculture or ornamental horticulture at Cornell University an opportunity to study in foreign countries. Two awards were made in 1960. Lawrence C. Sherk, Port Colborne, Ont., Canada, who received a master of science degree in August, 1960, is at present studying at the Royal Botanical Garden at Edinburgh, Scotland. Martin Cohen, the second recipient, received a bachelor of science in June, 1960, and is studying landscape design at Tokyo and Kyoto, Japan.

A. A. N. LANDSCAPING AWARDS

The ninth annual industrial and institutional landscaping awards competition is announced by the American Association of Nurserymen. Entries must be received by September 1, 1961. A folder describing awards and containing entry procedure and list of winners of the past five years will be mailed upon request to Dr. Richard P. White, American Association of Nurserymen, 835 Southern building, Washington 5, D. C.

MECHANIZE THE PROCESSING OF YOUR SOIL MIXES



with the new **ROYER**

PAUL BUNYAN

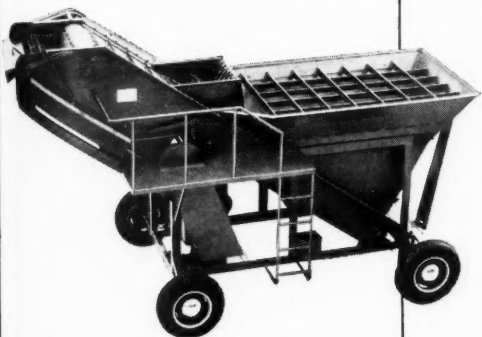
MODEL 360 SHREDDER

With the new Paul Bunyan, you can shred, blend, aerate and remove trash from your soil mixes—in one operation and in quantities up to 120 cu. yds. an hour. Capable of taking a charge of 2 cu. yds. from a bucket loader or drag line, the Paul Bunyan is a *complete processing plant*. It's been Royer-engineered, with the power, portability and capacity needed by today's large growers.

Ruggedly built, this machine features:

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- a 3 cu. yd., 9' wide loading hopper
- a discharge height that allows you to load directly into large trucks

Find out more about the Paul Bunyan Model 360 by contacting us now. We'll be pleased to send you complete information on specifications and prices.



The Paul Bunyan is a complete, compact soil processing plant with a shredding capacity of up to 120 cu. yds. an hour.

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ROYER FOUNDRY & MACHINE CO.

182 PRINGLE STREET, KINGSTON, PENNSYLVANIA

"LEADERS IN THE SCIENCE OF SOIL CONDITIONING"

LINING-OUT STOCK

<i>Ilex crenata convexa</i>		<i>Taxus baccata repandens</i>	
3-yr.	15c	3-yr.	25c
2-yr.	12c	2-yr.	20c
<i>Ilex helleri (crenata)</i>		<i>Taxus hicksi, upright</i>	
3-yr.	17 1/2c	3-yr.	22 1/2c
2-yr.	15c	2-yr.	17 1/2c
<i>Ilex crenata microphylla</i>		<i>Taxus hatfieldi, upright</i>	
2-yr.	15c	3-yr.	22 1/2c
<i>Ilex crenata rotundifolia</i>		2-yr.	17 1/2c
3-yr.	15c	<i>Taxus Lynch No. 1, dwarf spreading</i>	
<i>Juniper, Armstrong</i>		3-yr.	22 1/2c
3-yr.	25c	2-yr.	17 1/2c
<i>Taxus cuspidata capitata</i>		<i>Taxus T-31, semiglobe</i>	
4-yr., S., T.	25c	3-yr.	22 1/2c
3-yr., S., T.	20c	2-yr.	17 1/2c
<i>Taxus cuspidata, spreading</i>		<i>Taxus, Vermeulen, upright</i>	
3-yr.	22 1/2c	3-yr.	22 1/2c
2-yr.	17 1/2c	2-yr.	17 1/2c
<i>Taxus browni, vase shape</i>		<i>Tsuga canadensis</i>	
3-yr.	22 1/2c	3-yr., T.	30c
2-yr.	17 1/2c	2-yr., T.	25c

All stock is listed by the number of years that it has been growing in outside beds. Terms of sale: All orders F.O.B. Lincoln, Del. All orders must be accompanied by cash or 25% deposit and balance C.O.D. or satisfactory credit references.



Write for Our List of Finished Stock

DEL-MAR-VA NURSERIES

Phone: GArden 2-4445 Lincoln, Del.
(Our 35th Year)

WHOLESALE GROWERS

Seedlings—Transplants—Potted and Field Liners—Finished Stock
Taxus a specialty.

Complete catalog on request.

HEASLEY'S NURSERIES

247 Freeport Rd.
Butler, Pa.

CANADIAN HEMLOCK and BALSAM FIR Northern-Grown

	Per 100	Per 1000
3 to 6 ins., S.	\$ 3.00	\$ 17.50
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.50	100.00
18 to 24 ins., S.	30.00	

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

WILLIAM CROSBY HORSFORD
Charlotte, Vt.

B & B EVERGREENS ARBORVITAE HEMLOCK JUNIPER TAXUS

Nursery located north end of Broad Brook on Connecticut Highway No. 140.

Ask for Wholesale Price List

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NURSERY SALES, INC.

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Affiliate of Peninsula Nurseries, Inc.
Melfa, Va.

Landscape-size Evergreens, Azaleas,

Ornamental Trees and Plants

Specializing in heavy, quality,
lining-out stock.

"A Friendly, Efficient Sales Service"

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Wallingford, Conn.

Representing Wholesale Growers
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SERVING THE NURSERY TRADE FOR MORE
THAN A QUARTER OF A CENTURY.

See our large ad on pages 24 and 25
of the January 1 issue.

Production of Quality Trees

Featured Talk at Recent Pennsylvania Conference

William Flemer III, Princeton Nurseries, Princeton, N. J., detailed the methods his firm uses in the production of quality trees in an address that was one of the high points of the recent Pennsylvania nurserymen's conference. Other events of the final two days of the conference, held at University Park, Pa., are reported elsewhere in this issue.

Mr. Flemer pointed out first that variation in strains should be considered when one is choosing lining-out stock of trees. Red maples, native from Maine to Florida, vary in hardiness. Those from Florida are tender and those from the north will not do well in the south. One should choose those that are adaptable for the planting area. Clonal strains are best if it is possible to get them.

The size of the plants is important. They should be at least whips for the small nursery and are better if 2 years old, headed six to eight feet or eight to 10 feet in size. With land value high, it is not advantageous or necessary to keep the larger plants so long, and they are at a stage where one more transplanting is all that will be needed to bring them to 2 to 2 1/2-inch or 3-inch caliper. This plan allows better use of labor in planting and care.

The best agricultural land should be used for 6 to 8-foot trees. The cheapest land is never good. The soil should be good loam, friable, well drained and of high fertility if possible. Soil and pH tests should be made. The pH should be brought to 6.0 to 6.5, except for special acid plants. If the land is in sod, it should be plowed in the fall as late as possible and left rough. If bare when obtained, plowing should be delayed until spring.

Rows should be at least six feet apart, and seven feet is better for shade trees, with 4 to 5-foot spacing in the rows. Fertilizer should be applied to the rows, either by hand or row applicators, and a 10-6-4 mixture is good.

Preliminary Handling

When the plants are received, the bottom strings of the package should be cut and the base covered with a

Spraying Can Protect Your Plants and Profits

But Its Effectiveness Depends Upon the Equipment You Use

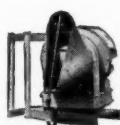
Spray protection insures healthy plants and bigger profits. But . . . it's only as effective as the equipment you use. Thorough coverage is essential. If not properly applied, the best insecticides, fungicides or fertilizers will give only poor control. Here are several types of sprayers in wide use by nurserymen with varying requirements. Which type would fit your needs best?

SPEEDAIRE ATTACHMENTS

Efficient, economical air spraying is available to any nurseryman with a John Bean Speedaire attachment. Either one converts most any high-pressure sprayer into a modern air sprayer. Both feature convenient remote controls for easy, one-man operation plus top performance with thorough, penetrating tree coverage.



Model 12 Speedaire



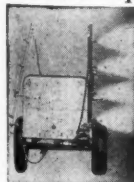
Model 10 Speedaire

Choose the Model 10 for small to medium tree acreage or the Model 12 for bigger capacity requirements.

CHRISTMAS TREE SPRAY MAST

A highly practical and efficient spraying attachment for Christmas trees or any medium-sized trees, the John Bean Spray Mast mounts easily on the back of any high-pressure sprayer.

It comes equipped with nozzle discs for use with pumps ranging in capacities from 10 g.p.m. and up. Discs and whirl-plates can be changed to tailor the spray for best tree coverage.



Spray Mast

Boom height is easily and quickly adjustable. Control valves permit one or two-way spraying.

AIRCROP ATTACHMENTS

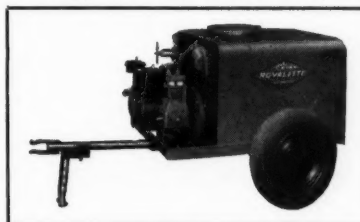
You'll cover big acreages faster and more thoroughly with a John Bean Aircrop attachment. With this versatile mist sprayer, you can protect nursery plants, shrubs and trees with concentrations many



times those used in high-pressure equipment and you do it in less time, using less spray material. Three models of Aircrop attachments are available—the 10-RC, the 15-RCG and the 20-RC. Any one converts most any high-pressure unit into a modern, air-type sprayer.

ALL-PURPOSE ROYALETTE

Get all-around versatility for every nursery spraying job with John Bean's famous Royalette. It's an all-purpose sprayer that gives you efficient, dependable performance at modest initial cost. The Royalette 10 Series offers a capacity of 10 g.p.m. at up to 400 lbs. pres-



sure; the 55 Series has a 5 g.p.m. capacity at up to 400 lbs. Where higher capacities are required, John Bean offers the Royalier Series with capacities of 15 g.p.m. at up to 400 lbs. pressure and 20 g.p.m. at pressure up to 300 lbs.

BEAN BONDED TANKS

To protect against corrosive spray materials, John Bean bonds tank interiors with a special process called BEAN BOND—your guarantee against rust and corrosion. Royalette and Royalier sprayers are available in a wide variety of mountings including skid, trailer and power take-off models.

COMPACT TROJAN SPRAYER

The compact John Bean Trojan sprayer fills the bill for varied spot-spraying jobs. Perfectly balanced, it's a highly portable unit that can be moved into hard-to-reach places. Trojan's new fiberglass pump re-

sists corrosion and abrasion. It has no bearings, belts or gears—only one moving part. Pump delivers a constant, nonpulsating pressure with a capacity of 3 g.p.m. at up to 60 p.s.i. Powerful, 2 1/4-h.p., four-cycle engine is equipped with automatic recoil starter for fast, easy starts. Pistol grip spray gun adjusts from wide, cone-shaped mist to straight stream. Trojan comes



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mulch and sprinkled every two days if the plants are to be planted soon. If there will be a delay in planting, they should be heeled in. Tops of such plants as oaks, sourwood and hawthorn should be sprayed with Wilt-Pruf. Before planting, the roots should be puddled; mix a dilute starter solution (one-half strength of tomato starter) in the puddle. Cultivation should be done right after planting. Making a ridge six to eight inches around plants helps to hold them upright.

Mr. Flemer outlined the care of the trees for the first three years. The first year, the 6 to 8-foot plants should be trimmed severely, the leaders being left, but side branches being reduced by two thirds. The hilled area should be sprayed with Simazine as soon as the soil settles after planting. The secret is to put Simazine on when the weeds are small and weak. Clean cultivate during the first summer as often as necessary to control weeds.

Young trees will give better growth when cultivated than when in sod. In July, if the central leader has been harmed, a side branch should be tied up to take its place. Also, overly strong branches should be headed back. In September, Simazine should be sprayed on again. Early in September, spring oats should be sowed between the trees to give winter protection and to hold moisture better. However, do not use oats on ginkgo and crab apple, because of meadow and pine mice.

Second-Year Care

Second-year care includes trimming back new branches to three or four buds, or three or four pairs of buds on opposite-leaved plants, in January and February. Honey locust

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	100	1000		100	1000		100	1000
	rate	rate		rate	rate		rate	rate
Abies concolor (Concolor Fir)			Ilex crenata hetzi			White Pine (<i>Pinus strobus</i>)		
4 to 6 ins., 4-yr., T.	\$0.30	\$0.20	large glossy leaf	\$0.30	\$0.28	3 to 5 ins., 2-yr., S.	\$0.08	\$0.03
6 to 8 ins., 5-yr., T. ....	.35	.25	8 to 10 ins., 2-yr., T. ....	.40	.38	4 to 8 ins., 3-yr., S. ....	.10	.04
10 to 15 ins., 6-yr., T. ....	.45	.38	10 to 12 ins., 3-yr., T. ....	.45	.42	Pinus mugo , Tyrolean-Swiss		
Azalea kaempferi (Flame Azalea)			12 to 15 ins., 4-yr., T. ....	.60	.55	2 to 3 ins., 3-yr., S. ....	.10	.09
3 to 6 ins., 2-yr., T. ....	.25	.22	Ilex crenata helleri , very dwarf			3 to 4 ins., 3-yr., S. ....	.15	.12
6 to 8 ins., 3-yr., T. ....	.30	.28	4 to 6 ins., 3-yr., T. ....	.38	...	4 to 6 ins., 3-yr., S. ....	.18	.16
Azalea Ghent Hybrid , mixed pastels			6 to 8 ins., 4-yr., T. ....	.45	...	(Order minimum, 500 at 1000 rate.)		
2 to 4 ins., 2-yr., T. ....	.20	.18	8 to 10 ins., 4-yr., T. ....	.75	...	Pyracantha cocc. lalandi (Fire Thorn)		
4 to 6 ins., 2-yr., T. ....	.25	.22	10 to 12 ins., 5-yr., T. ....	.90	...	4 to 6 ins., 2-yr., T. ....	.28	.25
Azalea mollis (Chinese Azalea)			Ilex rotundifolia (Round-leaved Holly)			6 to 8 ins., 2-yr., T. ....	.32	.30
2 to 4 ins., 2-yr., T. ....	.12	.10	8 to 10 ins., 2-yr., T. ....	.35	.30	8 to 10 ins., 2-yr., T. ....	.38	.35
3 to 5 ins., 3-yr., T. ....	.20	.18	10 to 12 ins., 3-yr., T. ....	.40	.35	10 to 12 ins., 3-yr., T. ....	.40	.38
5 to 8 ins., 3-yr., T., field.	.25	.22	12 to 15 ins., 4-yr., T. ....	.50	.45	Quercus palustris (Pin Oak)		
Azalea mucronulatum , lavender			12 to 15 ins., 5-yr., T., heavy	.65	.60	4 to 6 ins., 1-yr., S. ....	.10	.08
1 to 3 ins., 1-yr., T. ....	.25	.20	15 to 18 ins., 6-yr., T., field.	1.00	.90	Rhododendron Hybrid		
4 to 6 ins., 2-yr., T. ....	.30	.25	Juniper Andorra (Purple Andorra)			3 to 5 ins., 3-yr., T. ....	.35	.32
6 to 8 ins., 3-yr., T. ....	.35	.30	4 to 6 ins., 1-yr., T. ....	.22	.20	4 to 6 ins., 4-yr., T. ....	.45	.42
Azalea poukhanensis			6 to 8 ins., 1-yr., T. ....	.28	.25	5 to 8 ins., 4-yr., T. ....	.55	.48
2 to 3 ins., 2-yr., T. ....	.22	.20	8 to 10 ins., 3-yr., T. ....	.40	.38	Scotch Pine (<i>Pinus sylvestris</i>)		
3 to 4 ins., 3-yr., T. ....	.30	.28	Juniper glauca hetzi (Hetz Juniper)			8 to 14 ins., 4-yr., T. ....	.15	.05
Azalea schlippenbachii (Royal Azalea)			4 to 6 ins., 2-yr., T. ....	.20	.18	10 to 15 ins., 4-yr., T. ....	.15	.06
1-yr., T., bedded	.18	.15	6 to 10 ins., 2-yr., T. ....	.25	.22	(Order minimum, 500 at 1000 rate.)		
2 to 3 ins., 2-yr., T. ....	.22	.20	8 to 12 ins., 2-yr., T. ....	.32	.28	Taxus capitata (Upright Jap. Yew)		
3 to 6 ins., 3-yr., T. ....	.30	.28	10 to 15 ins., 2-yr., T. ....	.35	.30	Seedlings		
Buxus sempervirens walteri			12 to 15 ins., 3-yr., T., ctbk.	.45	.42	2 to 3 ins., 2-yr., S. ....	.05	.04
(Waller's Hardy Boxwood)			12 to 18 ins., 4-yr., T., ctbk.	.55	.50	3 to 4 ins., 3-yr., S. ....	.07	.06
4 to 6 ins., 2-yr., T. ....	.25	.22	Juniper hibernica fastigiata			4 to 6 ins., 3-yr., S. ....	.09	.07
6 to 8 ins., 2-yr., T. ....	.30	.28	(Compact Irish Juniper)			6 to 8 ins., 4-yr., S. ....	.15	.12
8 to 10 ins., 3-yr., T. ....	.35	.32	4 to 8 ins., 2-yr., T. ....	.20	.18	8 to 10 ins., 4-yr., S. ....	.18	.16
10 to 12 ins., 3-yr., T. ....	.40	.38	8 to 10 ins., 2-yr., T. ....	.25	.22	10 to 12 ins., 4-yr., S. ....	.22	.19
12 to 15 ins., 4-yr., T. ....	.50	.45	10 to 12 ins., 2-yr., T. ....	.35	.30	Taxus capitata (Upright Jap. Yew)		
Chamaecyparis filifera aurea			12 to 15 ins., 3-yr., T. ....	.45	.40	Transplants		
(Golden Thread Cypress)			Juniper chinensis pfitzeriana			4 to 6 ins., 3-yr., T. ....	.28	.25
3 to 4 ins., 2-yr., T. ....	.25	.22	4 to 6 ins., 2-yr., T. ....	.28	.25	6 to 8 ins., 3-yr., T. ....	.30	.25
4 to 6 ins., 2-yr., T. ....	.28	.25	6 to 8 ins., 2-yr., T. ....	.32	.30	8 to 10 ins., 3-yr., T. ....	.35	.32
Chamaecyparis lawsoniana allumi			8 to 10 ins., 2-yr., T. ....	.45	.40	8 to 15 ins., 3-yr., T., ctbk.	.45	.40
(Blue Cypress)			10 to 15 ins., 3-yr., T. ....	.50	.45	10 to 12 ins., 6-yr., T., ctbk.	.75	.65
4 to 6 ins., 2-yr., T. ....	.22	.18	Juniper pfitzeriana compacta			Taxus cuspidata (Spreading Yew)		
6 to 10 ins., 2-yr., T. ....	.30	.28	6 to 8 ins., 2-yr., T. ....	.35	.30	4 to 6 ins., 2-yr., T., beds.	.20	.18
10 to 12 ins., 3-yr., T. ....	.45	.40	8 to 10 ins., 2-yr., T. ....	.45	...	6 to 8 ins., 2-yr., T., beds.	.25	.22
12 to 15 ins., 3-yr., T. ....	.50	.45	10 to 15 ins., 3-yr., T. ....	.55	.50	8 to 10 ins., 2-yr., T., beds.	.40	.38
Chamaecyparis plumosa aurea			Juniper pfitzeriana aurea			10 to 12 ins., 3-yr., T., ctbk.	.45	.40
(Golden Plum Cypress)			4 to 6 ins., 2-yr., T. ....	.28	.25	10 to 15 ins., 4-yr., T., fld.	.65	.55
4 to 6 ins., 2-yr., T. ....	.22	.18	6 to 8 ins., 2-yr., T. ....	.35	.32	Taxus media brownii		
6 to 8 ins., 2-yr., T. ....	.30	.28	8 to 10 ins., 2-yr., T. ....	.40	.38	4 to 6 ins., 2-yr., T., beds.	.22	.20
8 to 10 ins., 3-yr., T. ....	.35	.30	10 to 12 ins., 2-yr., T. ....	.50	.45	6 to 8 ins., 2-yr., T., beds.	.28	.25
10 to 15 ins., 3-yr., T. ....	.45	.40	12 to 15 ins., 3-yr., T. ....	.60	.55	8 to 10 ins., 3-yr., T. ....	.45	.40
Colorado Blue Spruce (<i>Picea pungens</i>)			Juniper stricta (Spiral Greek)			10 to 12 ins., 4-yr., T. ....	.55	...
4 to 6 ins., 3-yr., T. ....	.18	.15	4 to 6 ins., 2-yr., T. ....	.35	...	10 to 15 ins., 5-yr., T., fld.	.65	...
6 to 8 ins., 4-yr., T. ....	.22	.18	6 to 8 ins., 2-yr., T. ....	.40	...	Taxus media hicksi (Hicks' Yew)		
8 to 10 ins., 5-yr., T. ....	.28	.25	8 to 10 ins., 2-yr., T. ....	.48	...	4 to 6 ins., 2-yr., T. ....	.20	.18
10 to 12 ins., 5-yr., T. ....	.35	.30	10 to 15 ins., 3-yr., T. ....	.55	...	6 to 8 ins., 2-yr., T. ....	.25	.22
12 to 15 ins., 6-yr., T. ....	.40	.35	Juniper squamata meyeri (Blue Meyer)			8 to 10 ins., 2-yr., T. ....	.35	.30
15 to 18 ins., 7-yr., T. ....	.45	.40	3 to 4 ins., 2-yr., T. ....	.32	...	10 to 12 ins., 3-yr., T. ....	.45	.40
Douglas Fir (<i>Pseudotsuga douglasii</i>)			4 to 6 ins., 2-yr., T. ....	.40	...	12 to 15 ins., 4-yr., T. ....	.55	.48
4 to 6 ins., 4-yr., T. ....	.25	.18	6 to 10 ins., 3-yr., T. ....	.48	...	Thuja occidentalis (American Arborvitae)		
6 to 8 ins., 4-yr., T. ....	.30	.20	Leucothoe catesbaei			2 to 4 ins., 3-yr., S. ....	.08	.06
8 to 10 ins., 5-yr., T. ....	.35	.25	(Drooping Andromeda)			4 to 8 ins., 3-yr., S. ....	.10	.08
10 to 15 ins., 5-yr., T. ....	.45	.38	3 to 4 ins., 1-yr., T. ....	.18	.16	8 to 10 ins., 4-yr., S. ....	.15	.12
Euonymus alatus (Winged Euonymus)			4 to 6 ins., 2-yr., T. ....	.22	.20	10 to 15 ins., 4-yr., S. ....	.20	.18
6 to 10 ins., 2-yr., T. ....	.20	.18	6 to 8 ins., 2-yr., T. ....	.25	.22	Thuja occidentalis douglasii aurea		
10 to 12 ins., 3-yr., T. ....	.25	.20	Liquidambar styraciflua (Sweet Gum)			(Golden Douglas Arborvitae)		
12 to 18 ins., 4-yr., T. ....	.35	.32	6 to 12 ins., 2-yr., field	.06	.05	8 to 10 ins., 3-yr., T. ....	.45	...
Euonymus fortunei coloratus			12 to 18 ins., 3-yr., field	.08	.06	10 to 12 ins., 3-yr., T. ....	.55	...
(Prostrate Evergreen Creeper)			18 to 24 ins., 3-yr., field	.10	.08	12 to 15 ins., 4-yr., T. ....	.65	...
Low growing.			2 to 3 ft., 3-yr., field	.12	.10	Thuja occidentalis elegantissima lutea		
4 to 8 ins., 1-yr., T. ....	.18	.16	Mahonia aquifolium (Oregon Grape Holly)			(Golden Tipped Arborvitae)		
8 to 12 ins., 2-yr., T. ....	.28	.25	2-yr., bed run	.06	.05	8 to 10 ins., 3-yr., T. ....	.35	.32
Euonymus fortunei erectus			2 to 4 ins., 2-yr., S. ....	.09	.07	10 to 12 ins., 3-yr., T. ....	.40	.38
(Evergreen Big-leaved Winter-Creeper)			3 to 5 ins., 3-yr., S. ....	.12	.10	12 to 15 ins., 4-yr., T. ....	.50	.48
4 to 8 ins., 1-yr., T. ....	.18	.16	Norway Spruce (<i>Picea excelsa</i>)			15 to 24 ins., 4-yr., T. ....	.65	.48
8 to 12 ins., 2-yr., T. ....	.25	.22	4 to 8 ins., 3-yr., T. ....	.12	.05	Thuja occidentalis globosa , Woodward's		
Euonymus radicans vegetus			5 to 10 ins., 4-yr., T. ....	.15	.06	8 to 10 ins., 2-yr., T. ....	.30	.28
(Evergreen Winter-Creeper)			10 to 12 ins., 4-yr., T. ....	.20	.12	10 to 12 ins., 3-yr., T. ....	.40	.38
3 to 4 ins., 1-yr., T., beds.	.15	.12	12 to 15 ins., 6-yr., T. ....	.25	.18	12 to 15 ins., 3-yr., T. ....	.50	.45
4 to 8 ins., 1-yr., T., beds.	.20	.18	Pieris japonica (Japanese Andromeda)			Thuja occidentalis pyramidalis		
8 to 10 ins., 2-yr., T. ....	.35	.30	1 to 3 ins., 1-yr., T. ....	.20	.18	(Pyramidal Arborvitae)		
10 to 12 ins., 3-yr., T. ....	.45	.40	3 to 4 ins., 2-yr., T. ....	.28	.25	8 to 10 ins., 2-yr., T. ....	.38	.35
12 to 15 ins., 3-yr., T. ....	.45	.42	4 to 6 ins., 3-yr., T. ....	.35	.30	10 to 12 ins., 2-yr., T. ....	.45	.42
15 to 18 ins., 4-yr., T. ....	.55	.50	6 to 8 ins., 4-yr., T. ....	.38	.35	12 to 15 ins., 3-yr., T. ....	.55	.50
Ilex crenata convexa (Bullata)			Austrian Pine (<i>Pinus nigra</i>)			15 to 18 ins., 4-yr., T. ....	.65	.55
8 to 10 ins., 2-yr., T. ....	.38	.35	6 to 8 ins., 3-yr., S. ....	.12	.02½	18 to 24 ins., 6-yr., T. ....	.75	...
10 to 12 ins., 2-yr., T. ....	.48	.45	8 to 10 ins., 3-yr., S. ....	.15	.03½	White Spruce (<i>Picea alba</i>)		
12 to 15 ins., 3-yr., T. ....	.65	.55	10 to 15 ins., 4-yr., S. ....	.20	.04	6 to 10 ins., 5-yr., T. ....	.20	.10
12 to 18 ins., 6-yr., field	1.00	.90	(Order minimum, 500 at 1000 rate.)			10 to 12 ins., 6-yr., T.25	.15

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may need to have the top cut back. In March, cut the oaks as soon as possible. Fertilize by hand or side dress, using one ton of 10-6-4 fertilizer per acre in the rows. Spray with DDT and malathion for tent caterpillars on rosaceous plants and for cankerworms in April. Also in April, when growth starts, rub off side bud sprouting while it is still soft. Spray the row hill with Simazine and cultivate centers for weed control. Light pruning for shaping is done in July. Do not prune more than necessary, because pruning is dwarfing. Crooked leaders should be tied up. Give the last cultivation in August and cut down the row hill with a grape hoe or shovel plow. Sod should be sowed after the cultivation, except in blocks of ginkgo and malus.

Moderate pruning should be given in January and February of the third year. At the same time, bagworm cases, if any, can be picked off. The plants should be fertilized in March with one and one-half pounds of 10-6-4 mixture per inch of trunk diameter. In April, spraying should be done for tent caterpillars and cankerworms. Also the mowing of the sod should be started, with the clippings left for mulch. During the season, about four mowings will be necessary. In September, clear any grass or weeds from around trunks of ginkgo and malus.

In later years, the program should follow that of the third year. After plants are sold, culls should be removed, even though one may be tempted to keep them. The soil should be put into sod, the pH adjusted and fertilizer added. The area is then ready for a new crop of trees.

Selecting Varieties To Grow

Mr. Flemer recommended, in selecting the varieties, that one not try to guess the market. Instead, plant moderately, following a sensible program, and repeat each year. Modifications in the list can be made as experience indicates. One should keep records of all inquiries, to help determine the varieties to grow, and should be guided by local conditions. Cork tree and London plane are good for city plantings, while sugar maples are good in rural or suburban areas. It is well to avoid planting varieties that grow fast. These can be purchased as needed.

At Princeton it has been found that 60 to 65 per cent of the trees are in pin oak, sugar maple, named honey locust, London plane, Tilia cordata, Norway maple, red maple and red oak. Thirty to 40 per cent



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10 to 12 ins.	2.25	2.00	T. henryi (The originator's	2.25	2.00
T. hatfieldi	1.50	12 to 16 ins.	1.50
12 to 16 ins.	2.25	2.00	10 to 12 ins.	1.50
10 to 12 ins.	4.75	T. densiformis	2.25	2.00
T. browni	1.75	12 to 16 ins.	1.50
12 to 16 ins.	1.75	10 to 12 ins.	1.50
T. capitata			
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are ginkgo, scholar's tree, silver linden, sweet gum, tulip, sour gum and Katsura.

Small or flowering trees are spaced in rows of six feet and grown broad and spreading. The better kinds of crab apple, but not all of them, are recommended. Among those grown are Hopa, floribunda, Katherine and Sargent. Flowering cherries are good if hardy in one's area. Kwanzan, white Shiro-fugen and yedoensis are good. Dogwoods should include flowering dogwood, both white and pink, and Cornus kousa. Other small trees recommended are clump birch, amelan-chier, Washington hawthorn, laburnum, oxydendrum, koelreuteria, silver bell and European beech.

Some new clonal material being grown at Princeton includes October Glory red maple, which holds its foliage late; columnar red maple, a cross of red and sugar maple; columnar Norway maple, and Crim-son King maple.

R. P. M.

ROSE BUYING GUIDE

The American Rose Society announces the release of its "1961 Guide for Buying Roses," an evaluation of 455 old and new roses including hybrid tea, floribunda, climber, grandiflora and miniature. The roses are assigned ratings ranging from 5 (of questionable value) to 10 (perfect), according to reports from more than 5,000 A. R. S. gardeners through the nation.

Since it first appeared in 1950, two million copies of the guide, published annually as a public service of the society, have been distributed to help all gardeners select the best roses. A copy of the 1961 guide may be obtained free of charge by writing to the American Rose Society, 4048 Roselea place, Columbus 14, O.

BLACK SPOT IN ROSE SOIL

According to research scientists of the agricultural research service of the United States Department of Agriculture, the possibility that black spot is carried over winter on dead leaves or in the soil has been disproved. Their study shows that the spores live over winter on the canes of the rosebushes. Hence a dormant spray would aid in reducing infection from that source.

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Leucothoe Catesbaei

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Selecting and Maintaining Lawn Grasses

Pennsylvania Conferees Hear Recommendations

Recommendations for establishing and maintaining a lawn in Pennsylvania were offered by John C. Harper II in his address before the Pennsylvania nurserymen's conference held recently at University Park, Pa., and reported elsewhere in this issue. An extension agronomist on the staff of Pennsylvania State University, Mr. Harper began his talk by stating that, contrary to popular belief, topsoil is not necessary for turf.

It is possible, he said, to establish and maintain good turf on subsoil if proper fertilization and organic material are added. Soil preparation by rototilling equipment is not good, since it destroys soil texture. A rotary hoe or a plow is much better.

The best pH for good turf is 6.5, but much of Pennsylvania soil is too acid, with 13 per cent 4.6 to 5.0 and 34 per cent 5.1 to 6.0. Those below 6.5 need lime. Much of the soil is low in phosphorus and potash also. The best plan is to have a soil test made to determine the soil content of the elements named, but, lacking such information, one should apply a 0-20-20 fertilizer, working it in four to six inches deep. On heavy soils, 60 to 75 pounds per thousand square feet is recommended, while on sandy soil it is better to use phosphorus alone, 60 to 75 pounds per thousand square feet, and then to supply potash through the season. Actually, one pound of active nitrogen at seeding is sufficient until the lawn is started; then the regular fertilizer feeding, 20 to 25 pounds per thousand square feet, can begin.

Bluegrass is one of the most important grasses for lawn use. It prefers open sun, good fertility and good drainage. Among the bluegrass types available are common, Delta, Park, Arboretum, Newport C-1 and Merion. Common is easily secured, but is susceptible to leaf-spot disease. Delta, Park, Arboretum and Newport C-1 are all relatively new and are high priced. However, some tests show they are no better in performance than com-

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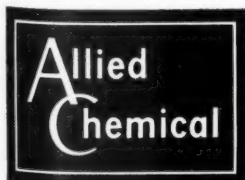
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mon bluegrass. Merion is still the best variety. It is, however, a high-fertility grass, and unless one intends to fertilize adequately there is no point in using it, since it will be no better than the common form under low fertility. It will need six to eight pounds of nitrogen per year, while common will perform all right at four pounds. Merion is not so susceptible to leaf spot, but is to rust.

Creeping Red Fescue

Creeping red fescue is another good grass. Several varieties are available, with common and Olds about equal and Rainier and Trinity no better than common but higher priced. Illahee is more resistant to disease than the others named, but the best creeping fescue is Pennlawn, developed at Penn State. Pennlawn is resistant to disease, spreads better than the others and forms an excellent turf. It is one of the best shade grasses.

Tall fescue has no place in the average home lawn, being a coarse-textured grass, but for service areas or athletic fields it is especially good. Alta and Kentucky 31 are two varieties, with Kentucky 31 better for Pennsylvania conditions and able to take closer clipping.

Undesirable species of grass are rye grass, timothy, clover, oat grass, redtop, orchard grass, tall fescue and bent grass.

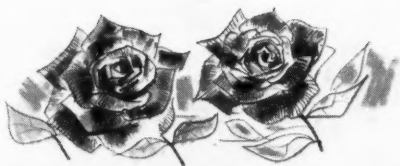
Creeping bent grass is the least desirable for the home lawn. It tends to take over the entire area, especially in wet seasons. It is more susceptible to more diseases and needs to be cut short, one-half inch. With high mowing, such as given other grasses, it develops fluffy thatches and needs to be top-dressed several times a year. Mixtures containing only 5 per cent bent still cause trouble. The seeds are small and constitute a much higher proportion per pound. It is no longer possible to get pure colonial bent; all is contaminated with creeping bent.

Fertilization

Proper fertilization gives good color in the fall and helps keep weeds down. It is best to have soil analyzed; then feeding adjustments to meet needs can be made. Usually 10 units of nitrogen are needed; thus a fertilizer formula of 10-5-5 or a 2-1-1 ratio is best. Sources of nitrogen such as ammonium sulphate, ammonium nitrate, sodium nitrate or urea are water soluble and immediately available. These will probably provide luxury con-



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sumption and give too much growth at one time and usually will last less than two and one-half to three weeks and not over six weeks. They will burn the grass if used too heavily, and if used safely will need to be applied 10 to 12 times a season.

Slowly available forms can be obtained in natural organics such as sludge, one feeding of which may last eight to 10 weeks, and synthetics such as ureaform, of which two applications a year will give good results. The total year's needs of 20 to 30 pounds per thousand square feet is split, with half being applied in the spring and half in the fall. The mixture of 10-5-5 or 10-6-4 should have one half or more of the nitrogen in slowly available form.

Uniform Distribution Best

Uniform distribution of the material is necessary, or burning may result. Any fertilizer can cause burning if not used properly. Applications should be made when the blades are dry, followed by watering if possible.

The height of mowing depends upon the type of grass. Stoloniferous types, such as bent, give dense growth at the surface and can stand close mowing. Rhizome types, such as bluegrass, have the stems below the surface and cannot stand close mowing. Bluegrass should not be mowed lower than one and one-half to one and three-quarters inches. Bunch or runner types like tall fescue should be cut high, two to two and one-half inches. Mowing should be done frequently, depending upon the rate of growth. Never remove more than one fourth to one third of the leaf surface at one time. Equipment should be in good condition at all times, and the mower must be sharp.

WINDS DAMAGE NURSERY

A tornado severely damaged a warehouse, storage building, barns and outbuildings of the Flower City Nursery, McMinnville, Tenn., March 13. Temporary repairs were made to enable spring orders to be shipped without interruption. The roof of the home of Mr. and Mrs. Tallman Boyd, owners of the nursery, was also blown off. Mr. Boyd stated that the repairs made would be sufficient to finish out the season, at which time remodeling will be done.

R. W. B.

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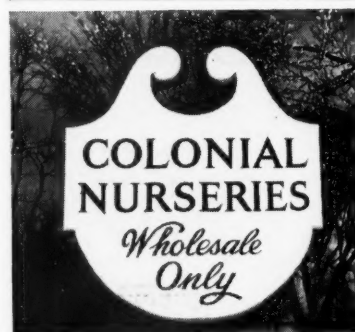
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THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

PLANT POLLEN

I suppose there have been systematic studies made of plant pollen, but they all must be buried in scientific libraries. Little seems to be written about it, and even botanical texts confine themselves to the mechanics of pollen formation and to its role in pollination and the subsequent fertilization by the pollen tube.

Nevertheless, even a simple microscopic study of the pollen on the plants around us can be an absorbing pursuit or hobby, revealing a number of unusual facts that lead to rather unexpected observations.

Recently I was looking out of a window and saw a bird seek a perch in the top of a red cedar, jarring loose a cloud of pollen. I sought a bit of the pollen and looked at it under the microscope. The grains were pale yellow, smooth spheres that were almost transparent. A wind-borne pollen, it is light and not sticky; its apparent diameter at 75 power would be about one twentieth of an inch. This would make each grain about 1/1500th of an inch in diameter.

Further calculation would show that it would take about 3,000,000,000 grains to fill a cubic inch. Yet each grain is a living plant part, and a single tree may produce enough pollen to discolor the surface of puddles or the ground around the tree.

I found the pollen of Japanese yew to be pale yellow, almost transparent, having a slight iridescence as well as a faint irregularity of spherical surface. It was about the same size as the pollen of the red cedar. Knowing that yews hybridize, I looked at the pollen of the Irish yew and, to my surprise, found it quite different. It is extremely small (about one-half the size of the former) almost white, irregular and somewhat transparent. It seems quite dry, with no stickiness at all, and I found that the grains cannot be crushed with one's finger.

Pollen in Many Shapes

Pollen comes in many shapes. Cryptomeria has a pollen about the same size as that of the red cedar, but it is cork-shaped like a button

mushroom, with two rings; the color is yellow green with a dull, rough surface. A limited study of pollen makes one wonder why yellow is the color that best serves the needs of plants.

Among the evergreen shrubs with early flowers I examined two, Korean and pyramidal boxwood; the former pollen was yellow, spherical, dull and rough; the latter, pale yellow, irregular, translucent and rough. The grains were somewhat sticky and measured about 1/1000th of an inch.

Some pollen, dependent on insects or gravity for pollination, is sticky. The pollen of crocus is deep yellow, spherical, large (about 1/500th of an inch), with a slightly rough surface. Any handling makes the grains clump together like bunches of grapes and stick to any object with which they come in contact. Another spring bulb, the chionodoxa, has oblong pollen (the

length two or three times the thickness) pointed at both ends, with a smooth surface and slight translucence.

An interesting pollen is that found on Japanese andromeda. It is very pale yellow, similar in appearance to tiny grains of white quartz sand. It seems slightly transparent and is a little sticky. The size is about 1/2000th of an inch.

Another early plant is the filbert, the pollen of which is pale yellow, transparent, slightly oval and smooth.

In spite of the copious quantities of wind-borne pollen produced by the conifers, it is shed in a brief period of several days, and if that period happens to come during a rainy spell, all is wasted and no pollination takes place. Also it is noted that some of this flowering occurs while winter is still here, and both exotics and natives may bloom early in the year without a definite pattern.

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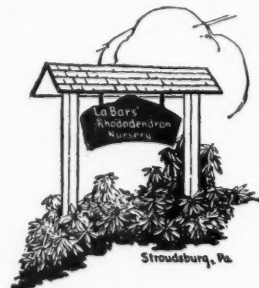
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- JUNIPER—Hetzi and Pfitzer
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- ARBORVITAE—Pyramidal, Dark Green

6 to 8 ins.	25 to 100	100 to 250	250 to 500	500 to 1000
EACH	20c	18c	16c	14c

LAST CALL

**TAXUS CUSPIDATA**

4 to 6 ins.....	30c	27c	24c	20c
6 to 8 ins.....	40c	36c	32c	28c
8 to 10 ins.....	50c	46c	42c	38c

**JUNIPER HETZI and PFITZER**

6 to 8 ins....	27c	24c	..	..
8 to 10 ins....	37c	33c	29c	25c
10 to 12 ins....	47c	43c	39c	35c
12 to 15 ins....	57c	53c	49c	45c

4 AND 5-YR. STOCK ALSO AVAILABLE

Taxus browni				
8 to 10 ins.....	50c	46c	42c	...
Taxus intermedia				
4 to 6 ins.....	32c	29c	26c	...



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VISITORS AT TYLER

One of three recent visitors from the Orient viewing the Municipal Rose Garden and the facilities of Consolidated Nurseries, Inc., at Tyler, Tex., was Seizo Suzuki, Japanese designer of the Yatsu Rose Gardens, rose breeder and hybridist and director of the Keisei Rose Research Institute. The Yatsu Rose Gardens, a 45-acre tourist attraction at Tokyo, Japan, have elevated landscaping, teahouses, bridges and tunnels as added features. Own-

er of the gardens, the research institute and a rose nursery, as well as several amusement parks, is the Kesei Electric Railway Co., Ltd., of Tokyo, the president of which, Chiharu Kawasaki, was another member of the group, with Jarumi Masuno, who is a travel agency representative, acting as the interpreter.

Dr. E. W. Lyle, director of the Texas Rose Research Foundation, was the party's chief guide at Tyler. Amusement parks, transportation facilities and housing projects

across the country were being observed by the visitors.

PURCHASED recently from Mr. and Mrs. Charles W. Wood, the Wood Nursery, Kelseyville, Calif., will continue to be operated under that name by the new owner, Duncan Williams.

STARTED recently was the Green Hand Nursery, Tucson, Ariz., by Louis Fodor, who plans to produce container-grown stock.

SPRING, 1961

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Juniper, canaerti
Juniper, depressa plumosa
(Andorra)
Juniper, glauca
Juniper, keteleeri
Juniper, Pfitzer, extra good
Juniper, stricta, sheared
Taxus cuspidata, small sizes
Euonymus erectus
Cornus rubra
Elm, Chinese
Crab Apple, Flowering
Locust, Honey (Moraine)
Magnolia
Maple, Crimson King, small sizes
Maple, Norway
Maple, Columnar
Maple, rubrum
Maple, schwedleri

Maple, Silver
Maple, Sugar
Oak, Pin, small sizes
Redbud
Sweet Gum, TT, once root-pruned
Willow, Thurlow
Almond, Pink
Barberry, Green
Barberry, Red
Barberry, mentorensis
Cotoneaster divaricata
Forsythia
Honeysuckle Bush
Philadelphus grandiflora
Philadelphus Virginal
Privet, Regel's
Privet, Amur North, heavy
Spiraea vanhouttei
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COVER ILLUSTRATION

Picea Abies Inversa

The many hoary, decrepit specimens of *Picea abies*, misplaced and neglected, one so often sees would seem to justify the low esteem generally accorded the Norway spruce. Widely used until a few years ago because of its hardihood, its rapid growth and its dark green foliage borne on a rather graceful frame, the fact that much of its beauty is lost in age has greatly reduced the popularity of this early-introduced evergreen as an ornamental tree. However, with adequate care the inherent attractiveness of the species type can be enjoyed for a long period, and there are many fine and much-used varieties of this species



Foliage of *Picea Abies Inversa*

that fill specific needs in modern landscape work. Like the parent, practically all variants of *P. abies* are exceptionally hardy and easily grown, being tolerant of a wide range of soil composition and suffering little from rugged climatic extremes within their proved zone. While moisture, available in sufficient amount, does much to assure maximum development, like all spruces, they will not tolerate "wet feet."

A smaller-maturing variety of *P. abies* is *P. a. inversa*. The plant pictured on the cover is located in a situation conducive to good conifer growth and is only about seven feet high after more than 35 years. Densely branched, pendulous in habit, with the branchlets so closely adpressed that they resemble clustered strands of Spanish moss from a distance, this unusual evergreen

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ASTERS, Lilac Mound or Alpine Goliath	1.50	12.00				GYPSOPHILA Pacifica. Pink	1.25	10.00
ASTILBE Rhineland Pink, Fanol Red. Choice	2.25	18.00				HEUCHERA (Coral-bells). Pink Brizoides	1.75	14.00
ASCLEPIAS Tuberosa	1.25	10.00				IRIS Kaempferi. Japanese, mixed, double-flowering		
ARTEMISIA Silver King, Silver	1.25	10.00				\$90.00 per 1000	1.40	12.00
ARTEMISIA Silver Mound	1.40	10.00				LIATRIS September Glory	1.75	15.00
AJUGA Metallica Crispa	1.65	15.00				LUPINE, Russell Hybrids, Mixed	1.25	10.00
ARBORVITAE, Globe, 15 to 18 ins., or Pyramidal, 20 to 24 ins., XX transplants	1.25	1.10				LYTHRUM Mordens Gleam or pink	2.00	18.00
PFITZER JUNIPER, Spreading, 15 to 20 ins., XX transplants	1.25	1.10				LYTHRUM Dropmore, Purple	1.50	12.00
SPRUCE, Colorado Blue, 10 to 12 ins., XX transplants	1.10	1.00				MATRICARIA, Double white		
BERBERIS Crimson Pigmy, Dwarf red barberry, 6 to 8 ins. 45c each; 8 ins. up, 65c each						Feverfew	1.25	10.00
BOXWOOD, Sempervirens Welleri, 8 to 10 ins., 50c each						MONARDA Croftway Pink or Cambridge Scarlet	1.40	12.00
BLEEDING HEARTS (Dicentra Spectabilis). 2 to 3 eyes	2.50	20.00				PLATYCODONS, Pink or blue	1.25	10.00
3 to 5 eyes	3.50	30.00				POPPY, Oriental, Scarlet or pink	1.50	12.00
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BEGONIAS, Pendula or Marginata. Choice, 1 1/2 to 2 ins.	1.80	16.00				STOKESIAS, 12,000 Blue Moon, \$95.00 per 1000	1.40	12.00
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gives an impression of pleasing gracefulness, and added attractiveness is afforded by the full-bodied, lustrous foliage. J. G.

CONSERVATION BOOKLET

For those not conversant with such practices, a booklet which may be a guide to nurserymen seeking to undertake soil and water conservation has been developed through the co-operation and assistance of the United States Department of Agriculture soil conservation service and representatives of the National Association of Soil Conservation Districts.

Soil and water conservation methods are portrayed in 24 illustrated pages, with suggestions how to start a conservation program and how it can pay off. The advantages of contour farming, strip cropping, terracing and other practices are explained.

The booklet, "Soil and Water Conservation Pays Dividends," can be had from local International Harvester farm equipment dealers.

DISCONTINUING business this spring is the Homecroft Nursery, Seattle, Wash. Its site will be used for a new school.

SPECIAL THIS SPRING NORWAY MAPLES

1000	8 to 10 ft., B. R.	\$ 1.50
1000	1 1/2 to 1 3/4-in. cal., B. R.	3.75
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Rooted cuttings	10.00	\$150.00
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Chicago Landscape Group Hears Talk on Tree Values

Trees having much value for landscape planting but too seldom used were the subject of the featured talk by Edward Eickhof, Eickhof Nurseries, Bensenville, Ill., at a meeting of the Chicago Metropolitan Landscaper's Association held March 31 at Louis Place, Addison, Ill.

Another speaker, John C. Fiori, Charles Fiori Nurseries, Inc., Prairie View, Ill., told the group that millions of dollars had been appropriated by the state of Illinois for landscape work on highways but was never posted for landscape contractors. Mr. Fiori urged the contractors to write to their representatives with the purpose of making it possible for the landscape man to contract for the work himself instead of working through a road builder.

Mr. Fiori also commented on pressing labor problems in the industry. This matter was to be the main topic at the April 10 meeting of the association.

Pamphlets and other literature on trees and shrubs and weed control were available to members without charge, along with samples of fertilizers. Applications for gas savings refunds were said to be still available.

Tree Recommendations

Mr. Eickhof opened his discussion of trees with remarks about several desirable maples. The columnar Norway maple, the first one mentioned, is slower growing than the well-known Norway maple. The leaf is quite similar, and this variety also assumes the yellow fall coloring. This tree is well adapted to limited-space areas and for accent in some landscape designs. It is hardy and transplants readily, though it requires some trimming to keep it shapely and to check some of the fast-growing branches.

The Schwedler maple has been grown for many years and retains its popularity. Its leaves of reddish purple in spring and early summer turn a bronzy green later in the season. Some years, in midsummer, after an abundance of rainfall, the new leaves on the current season's growth are a vivid red, adding a beautiful and unusual touch to the coloring when the adult foliage on the tree is green.

The **Crimson King** maple, of

more recent introduction, is gaining in popularity. Its leaves of reddish purple in spring and early summer turn a darker color later in the season. It is slightly slower growing than either the Schwedler or Norway maples, though it transplants readily and develops a shapely, well-rounded top. The color adds an unusual contrast to the landscape, for in the spring most foliage is green, and the addition of the reddish-purple foliage of **Crimson King** is interesting.

Scarlet Maple

The scarlet maple is another exceptionally fine tree, especially if the brilliant fall coloring is desired, Mr. Eickhof continued. This variety is slower growing than the Norway maple, though it also becomes a large tree, with a broad, rounded top. Its bark is of a silvery-tan color, and the blooms of this variety are a vivid scarlet and add much to the early spring coloring when the leaves are reddish bronze. The fall foliage color varies from bright yel-

low to orange, and on some trees to bright scarlet. It will thrive in moist locations where some of the other varieties of hard maples will not survive. This is an important factor when using maple trees in landscape design.

The Spaeth sycamore maple is little known, yet deserves a place in good landscaping. The leaves are of a thick, leathery texture, the upper surface a rich, dark green and the underside of the leaf a beautiful purple color. The purple underside of the leaves shows noticeably when the wind turns them, producing an interesting and colorful effect. The growth rate is similar to that of the Norway maple.

Sugar Maple

The sugar maple is quite well known to most. Though slower growing, it should be planted more extensively, for its fall coloring is outstanding, varying from golden yellow to orange and scarlet on some trees. Here, too, the fall coloring varies with individual trees.

Soil nutrients and compositions play a large role in foliage coloring on many plants, and this holds true with the sugar and scarlet maples, the speaker pointed out. Color contrast should be stressed in good land-

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scape design and proper plants used to achieve this result. Too little thought is given to texture and coloring of foliage and bark, to form and character of individual specimens and to the seasonal color changes and contrasts.

Redbud

Another tree, or shrublike tree, of much value in good landscape design and too seldom used is the redbud, *Cercis canadensis*. If propagated and grown in the Chicago area it is definitely hardy and can be used to excellent advantage in most landscape plantings, according to Mr. Eickhof. It is one of the earliest of the flowering trees to bloom in the spring, and the red-dish-purple miniature sweet pea-like flowers attract much attention. It can be used in multiple or single-stem form and is highly effective when used in naturalistic plantings, though it may be planted in foundation or group plantings on residential, school, industrial or park grounds.

The redbud is also effective when used with a base planting of intermediate compact yews. Other dwarf flowering trees may be planted to achieve a similar effect. Combining plant material of contrasting character should be stressed, the speaker declared.

A newer variety, the white-flowering redbud, *Cercis canadensis alba*, was introduced a few years ago, but it is still rare.

Cercis chinensis, the Chinese redbud, still limited in quantity, has beautiful pink blooms and is said to be a profuse bloomer. Efforts are being made to acclimate this variety and prove its hardiness before placing it on the market.

Honey locust, *Gleditsia triacanthos*, either the thornless or the thorn bearing, is rapidly gaining in popularity and deservedly so. It is an excellent lawn tree, though it should seldom be used in limited parkway plantings, for its nearly horizontal-branching habit tends to produce too broad-headed a tree for limited space areas.

A number of patented varieties of honey locust are now available, said to be thornless and podless. Some purchasers still prefer thorn-bearing trees, claiming that these trees are closer and more evenly branched, and some find the red-colored thorns attractive, adding character to the individual tree. More honey locusts should be planted, especially where space is not limited.

The sweet gum, *Liquidambar*

Announcing — The plant you've been waiting for—a new HARDY WHITE EVERGREEN AZALEA

The feature plant in the prize-winning gardens of our home and flower shows is the white azalea. Northern florists, landscape men and nursery dealers have regretfully had to advise the many who inquired that these were not hardy items.

Now we are proud to introduce the proven hardy evergreen azalea.

MARTIN'S WHITE

For a period of 11 years we have been testing and growing Azalea Martin's White and can vouch for its complete hardiness. The original stock plants are planted on a sun and wind exposed slope and have withstood severe punishment. Even the disastrous winter of 1958-59, which claimed supposedly hardy neighboring plants, failed to hurt this one.

Azalea Martin's White is a medium-height azalea that reaches 2 to 2½ ft. in four or five years from a 1-yr. bedded liner. It loves pruning and can be sheared to make compact bedding and forcing heads. Handled in this manner it is about 1/3 larger than Hino-Crimson. Striking use of Azalea Martin's White is achieved when it is used as a border for deep red and pink sorts.

The clear white, 1½ to 2-in., hose-in-hose blooms are borne in clusters of two, three and sometimes four. Very profuse blooms occur before the new foliage appears and give a soft fluffy appearance to this white pillow.

Every decorator knows that white is the **accent** that shows and contrasts any color to its best advantage. You can't go wrong with white and you'll always be right with Martin's White.

We are certain that you will find this plant surpasses any so-called hardy white azalea on the market today. It is a multipurpose plant with no patent restrictions imposed upon it. We would like to see it become a trade standard as soon as possible.

The plants we have to offer were planted from pots in June and are nicely established, 1-yr., bedded stock. Price schedule as follows:

1 to 5	6 to 10	11 to 25	26 to 49	50 to 100
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Heavy outdoor-rooted cuttings, \$30.00 per 100, \$250.00 per 1000.

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Golden-leaved Forsythia with pale yellow flowers. Found by us in a flowering shrub border.

Heavy outdoor-rooted cuttings, \$30.00 per 100, \$250.00 per 1000.

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styraciflua, is an exceptionally fine tree, though it must be acclimated to the Chicago area, the speaker remarked. It has starlike leaves, which turn color in fall; they range from yellow through shades of orange and vivid red, while some are still green. It has a light gray, knobby bark, which adds interest and character to this tree.

Chinese Magnolia Useful

The saucer, or Chinese hybrid magnolia, *M. soulangiana*, is another plant of good character and form. While the magnolia is often referred to as a tree, the varieties grown in the northern areas are more shrublike in growth. Too few of the early-flowering plants are used, and the magnolia is one that should have a place in most plantings, where it can be used for accent or in group arrangements. Here, too, some of the dwarf or slow-growing yews may be used as base plantings. When propagated and grown in the Chicago area *soulangiana* is definitely hardy. It is a profuse bloomer.

Oaks

Oaks, especially the pin oak, *Quercus palustris*, should be planted in greater numbers, it was said. This tree transplants readily, makes rapid growth, is sturdy and is of excellent character and form. Its foliage attains beautiful fall coloring, ranging from yellow to orange and red. In the nursery the pin oak makes from two to two and one-half and even three feet of new branch growth in a season. The branches are horizontal in habit of growth, especially as the trees attain considerable size.

Red oak, *Quercus rubrum*, also assumes good fall coloring. It is a sturdy, long-lived tree, attaining a broad, rounded top.

The bur oak, *Quercus macrocarpa*, has larger leaves than the pin or red oak; these leaves turn a bronzy-yellow color in fall. The bark is light gray and of a rough texture. This variety, too, attains a broad, rounded top; is sturdy and rugged in appearance, and should be planted more extensively, especially on larger grounds.

The pyramidal American linden, *Tilia platyphyllos*, should be used more often, where planting space is limited, such as in narrow parkways or between buildings where trees are required. It transplants readily, growth is of medium rate and it is definitely hardy at Chicago. It is unsurpassed where a heavy screen planting is desired.

Mimosa Webworm Attacking Locusts In Several States

Mimosa webworm, first found in Indiana in 1953, has spread over the southern half of the state and to some northern counties, attacking both mimosa and honey locust trees. The wide use of newer clones of thornless honey locust trees enhances the importance of consideration of the insect, stated Dr. Donald L. Schuder, of the Purdue University department of entomology, in a paper presented at this year's meeting of the Indiana Nurserymen's Association.

First found in the United States in 1940 in the District of Columbia, the insect is now distributed chiefly in Maryland, Delaware, Virginia, Tennessee, Arkansas, the southern portion of Ohio and Indiana, southeast Missouri and in scattered spots farther south.

Damage is caused by the feeding and webbing of the larvae. The webworm feeds on both the foliage and fruit of mimosa. On honey locust trees the larvae web the foliage together, forming tunnellike shelters. These webs may contain several larvae, which eat off the lower surface of the leaflets, causing them to turn brown as if scorched by fire. The injury becomes particularly noticeable in August, when the second generation's injury is added to that of the first. When small trees are heavily attacked, the larvae spin down on silken threads and leave the trees in search of a new food supply.

The adult webworm is a silvery gray moth, the wings of which are stippled with black dots and about one-half inch in spread. The moths of the first generation appear in June, and those of the second emerge in late July and early August. The tiny oval eggs, hatching in three or four days, are pearly white when first laid and become pink as the larvae develop inside. The larvae are less than one-half inch long when full grown. The pupa is yellowish brown, about one-fourth inch long and covered with a whitish silken cocoon. The pupae are found in sheltered places on the ground and trunk and occasionally among the dead leaflets in the web. On thorny locusts the pupae may occur among the clumps of thorns.

In the fall of 1958 and the spring of 1959 were planted 200 thorny honey locust trees of four popular

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Does not only make a wonderful colorful shrub or tree but is ideal as a hedge.				100	1000
Each Per 100 Per 1000				rate	rate
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2-yr., S., 10 to 15 ins.	.11	.09		.14	.12
Taxus capitata					
2-yr., S.					
3-yr., S., root-pruned					
Taxus densiformis					
2-yr., pot				.30	.28
2-yr., T.				.30	.28
3-yr., T., heavy				.40	.36
Taxus intermedia Sebian					
2-yr., pot				.30	.28
2-yr., T.				.30	.28
Taxus media andersoni					
2-yr., pot				.28	.25
Taxus media brownii					
2-yr., pot				.30	.28
Taxus media hatfieldi					
2-yr., pot				.30	.28
Taxus media henryi					
2-yr., pot				.30	.28
Taxus media hicksi					
2-yr., pot				.28	.25
4-yr., T., root-pruned				.50	.45
Taxus microphylla, an upright grower					
2-yr., pot				.28	.25
Thuja occidentalis nigra					
1-yr., pot				.25	.22
Thuja occidentalis pyramidalis					
1-yr., pot				.25	.22
Thuja occidentalis woodwardi					
2-yr., pot				.25	.22
Viburnum americanum					
2-yr., S., 6 to 12 ins.				.10	.09
Viburnum lentago					
2-yr., S., 1½ to 2 ft.				.14	.11
2-yr., S., 2 to 3 ft.				.16	.14

25 plants receive 100 rate; 250 at 1000 rate.

TERMS: 2% 10 days; 30 days net; 3% for cash with order.



the cottage gardens, inc.

Nick I. W. Kriek — Harold E. Hicks

2707 W. St. Joseph St.

Lansing 17, Mich.

Just west of city limits on U. S. 27.

(OUR 38th YEAR)



Wholesale growers of the best

Ornamental Evergreens

Deciduous Trees

Shrubs and Roses

Write for our current trade list.

The Kallay Brothers Co.
1251 Madison Ave. PAINESVILLE, O.

"TREES THAT PLEASE"

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Seedlings
Shrubs

Write for price list.

PLUMFIELD NURSERIES

Box 471

Fremont, Neb.

Finest Quality

PERENNIALS and SHRUBS

Write for complete trade list.

KINGWOOD NURSERIES
MENTOR, O.

King-Size

Outdoor-Rooted Cuttings

BEATRIX FARRAND

Forsythia

ARNOLD ARBORETUM
INTRODUCTION

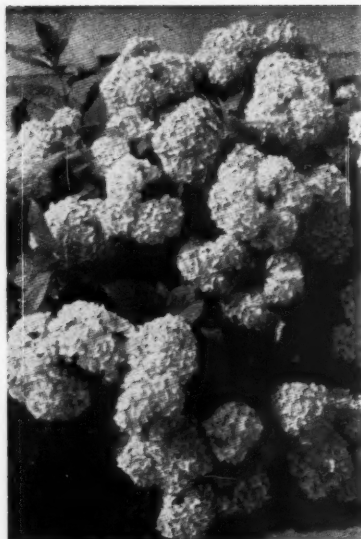
Brand-new beauty with golden florets often 2 ins. across—orange throat. This stock is propagated outdoors and may be lined out directly into the field. Get this new beautiful flowering shrub to please your customers.

\$15.00 per 100

\$135.00 per 1000

BEARDSLEE NURSERY

Perry, Ohio



NIKKO BLUE HYDRANGEA

Both hardy and beautiful. It has withstood temperatures of 20 degrees below zero. The tops die down to the ground every winter, but give them a little mulch protection and the crowns will grow into bushy shrubs in one season, 2 to 4 ft. tall with attractive luxuriant foliage and great masses of flowers.

Because the flowers are borne on the new wood, you get blooms every year and lots of them. It is not at all unusual to see flower heads more than a foot across and the shrub completely covered with them — a wonderful show.

In alkaline soil the flowers are pink; in acid they are blue. It's easy to change alkaline soil into acid with aluminum sulphate (two tablespoons to a gallon of water). Useful for:

Perennial Borders	Planting in Tubs and Boxes		
Shrub Borders	Foundation Plantings		
Lawn Specimens			
	Per 10	Per 100	Per 1000
No. 1	\$8.00	\$75.00	\$700.00
Medium	7.00	65.00	600.00

Write for price list.

WILLIS NURSERY CO.
 "Your Wholesale
 Nurserymen"
 Ottawa, Kan.

clones at the Purdue agronomy farm near Lafayette. Mimosa webworm pupae were placed in the planting in the spring of 1959. In that and in the following year insecticides were applied to the trees. The evidence thus far accumulated, reported Dr. Schuder, indicates that trithion and dieldrin are two insecticides which one should give consideration when planning a control program for the mimosa webworm. Two applications are recommended, the first early in June and the second in late July or early August in Indiana.

WINTER DAMAGE REPORTS

[Continued from page 10]

and azaleas were killed outright at the top of the plants, but even the lightest top protection—as little as a projecting leaf—was sufficient to keep a bud in first-class condition.

"All this will have a marked effect upon stock available for sale here in the east this spring, as follows:

"There is virtually no really first-class stock available around here, that is, plants without damage of any kind, excepting in deciduous material.

"Damage, while making most plants less slightly and therefore less salable, has not affected the basic soundness of the plants. They can therefore, in most cases, be sold with confidence in their successful development.

"Prospects for business look excellent, because damage has been widespread in home gardens as well, but both retailers and customers will have to accept material which looks rather weather-beaten.

"It seems clear that open field growing of broad-leaved evergreens without some measure of protection through the winter is foolish. This will mean a heavy capital investment, but I see no other way of producing good, salable plants in the spring."

Snow an Aid in Maryland

Ample snow covering is believed to have protected most stock in the cold period, states G. Willard Stoner, Westminster Nurseries, Inc., Westminster, Md., in these comments:

"The eastern seaboard experienced a severe winter. In Maryland the winter started December 11 with extremely cold weather and 14 inches of snow, and through the rest of December and January to mid-February there was a total of 48 inches of snow, with constant sub-normal temperatures. At Westminster, with high altitude, the snow in

WE ARE CLEARING 19 Acres of Nursery Stock Landscape-Size Material

Some of the specimen materials are:

HONEY LOCUST, up to 3½-in. cal.
NORWAY MAPLE, up to 5-in. cal.
CRIMSON KING MAPLE, up to 3-in. cal.
MOLINE ELM, up to 4-in. cal.
TREE COCKSPUR HAWTHORN, up to 7 ft.
WASHINGTON HAWTHORN, up to 8 ft.
ASSORTED FLOWERING CRAB APPLE, up to 3-in. cal.
EOXYMUS ALATUS AND COMPACTUS, up to 4 ft.

We have a few
COFFEE TREES
MAGNOLIA ACUMINATA
SUGAR MAPLES
TAXODIUM

EXTRA! Special on **BUISMAN ELMS** (Resistant to Dutch Elm Disease)

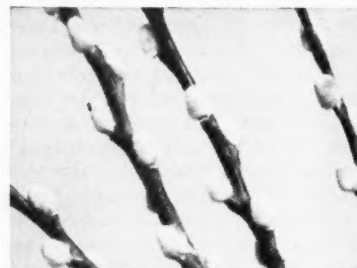
Transplanted Whips — Root Cutting Grown
 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Spaced Trees—Twice Transplanted
 2 to 2½-in. cal., 2½ to 3-in. cal., 3 to 3½-in. cal.

Attractive quantity prices, come out and look at this material.

RALPH SYNNESTVEDT & ASSOCIATES, INC.

3602 Glenview Rd. Glenview, Ill.



PINK FRENCH PUSSY WILLOW

(Salix Discolor Selection)

Beautiful February-forcing strain. Catkin sheath is a rich mahogany red with attractive large silvery-pink catkins when mature.

	Per 100	Per 1000
18 to 24 ins.	\$30.00	\$250.00
24 to 36 ins.	35.00	300.00
Cutback Liners	12.00	100.00

BEARDSLEE NURSERY Perry, O.

Northern-Grown Liners Christmas Tree Seedlings Potted Evergreens

Send for price list.

JOHN G. ZELENKA EVERGREEN NURSERY
 Rt. 2, Grand Haven, Mich.

FLORAL GARDENS



Growers of Lining-Out Stock
 Taxus—Pyracantha—Cotoneaster
 Shumard Oak Seedlings
 Send for complete list.
EATON, OHIO

some respects was a benefit, covering most of the plants and protecting them from high winds and zero weather. For the most part, our stock is in excellent condition, excluding *Ligustrum lucidum*, which normally shows damage; English boxwood, slightly damaged but salable, and *Mahonia bealei* and *aquifolium*, slightly damaged. Azaleas and rhododendrons, which we had protected, are in good condition, as are all Japanese hollies.

"There was minor damage to flowering shrubs and a few flowering trees from rabbits.

"In areas to the east and south, including the Eastern Shore, Maryland, Delaware and southern New Jersey, reports we have been receiving indicate the damage was extensive. Yews, rhododendrons and most other broad-leaved evergreens in some areas are not salable. It is my opinion that these areas did not have the snow protection that was available in the Westminster area. In view of the fact that wholesale growers in the damaged areas who are normally a source of supply for certain categories of stock may not have such stock to offer this spring, many items may be extremely short in supply.

"March has been more seasonable, with average or above-normal temperatures, but extremely wet. However, digging operations have been in progress. Bookings are extremely heavy and above normal. At this writing we anticipate an increase in the demand for nursery stock in this area."

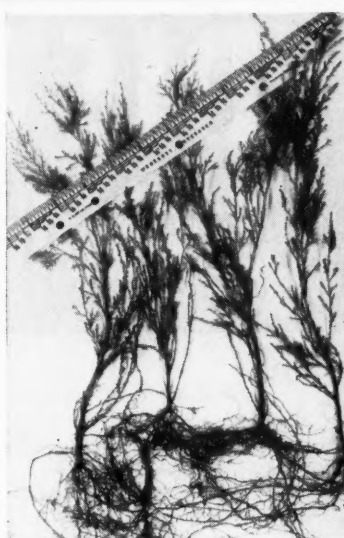
Pennsylvania Aspects

"There was comparatively little winter damage in southeastern Pennsylvania," according to Sidney B. Hutton, Jr., Conard-Pyle Co., West Grove, Pa. "Some broad-leaves and azaleas show winter burn, but taxus and all other evergreens seem okay.

"The Eastern Shore, I understand, had severe damage to broad-leaved evergreen and some to taxus. Southern New Jersey has serious damage again, mainly on broad-leaves and also extending more seriously to taxus.

"A nurseryman north of Baltimore reported little or no winter damage.

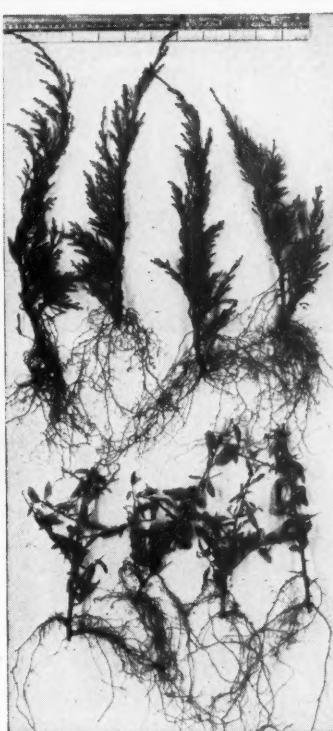
"I believe the explanation as to why we have none here and why southern New Jersey does is because we had more snow on the ground. Our ground never froze deeply, so that the root systems of the plants were able to obtain moisture during periods of thaw, which in our be-



Burk Juniper



Blue Hetz Juniper



Andorra Juniper (top) Pyracantha Kalandi and Kasan (bottom)

	Each
Andorra Juniper, 6 to 8 ins.	\$0.05
Burk Juniper, 6 to 10 ins. ....	.12
Blue Hetz Juniper, 6 to 10 ins. ....	.05
Pfitzer Juniper, 6 to 10 ins. ....	.07
Pfitzer Juniper, 6 to 8 ins., bands ..	.16
Euonymus patens, small or medium-leaved, 8 to 10 ins. ....	.04
Forsythia Beatrix Farrand, 6 to 10 ins. ....	.05
Forsythia Lynwood Gold, 6 to 10 ins. ....	.04
Forsythia Spring Glory, 6 to 10 ins. ....	.04
Euonymus coloratus, 6 to 10 ins. ..	.04
Pyracantha Kasan, 5 to 6 ins. ....	.05
Pyracantha Kalandi, 5 to 6 ins. ....	.05

Less than 300, total order,
2c more per plant.

Less than 50 of any item,
4c more per plant.

Shipment now or book your order
for spring.

See classified under lining-out stock
for other items.

**McININCH
GREENHOUSES
St. Joseph, Mo.**

LYNWOOD GOLD FORSYTHIA

Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame-rooted cuttings, approximately 1 ft.

\$12.00 per 100; \$100.00 per 1000.

BEARDSLEE NURSERY
Perry, Ohio

PEACOCK NURSERIES EVERGREENS SHADE TREES



Wholesale Growers

Write for price list.

721 S. Cleveland-Massillon Rd., Akron, O.

Growers of Heavy Landscape Material Shrubs

Evergreens
Shade Trees

Write for List

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Onarga, Ill.
Phone: AM 8-7267



DISTINCTIVE

Stimulate your salvi



Juniperus scopulorum 'MOUNTAINEER' (T.M.R.) Zone 4

Our own specially selected conifer, one we feel to be the best in a long time. An upright pyramidal habit of growth compactly covered with foliage of a dark rich green; very hardy.



Juniperus chinensis 'MINT JULEP' (T.M.R.) Zone 3

A lovely introduction by MN having a semi-spreading habit with an appealing arching to the branches. Rich green foliage covers the compact branching habit of this wonderful grower.



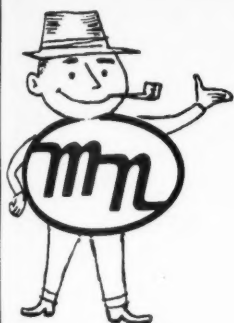
Juniperus occidentalis 'SIERRA SILVER' Zone 5

Our selection from the original Sierra junipers. From its origin we know its hardiness and its ruggedness. A pyramidal habit that has an artistic twist to the branches produces a plant of beauty — bold foliage of silver-blue adds to this interesting conifer.

NEW CONIFERS

sal with these  specialties

one 4
eel to
nidal
oliage



Juniperus scopulorum 'GRAY GLEAM'
(Patent No. 848)

Zone 4

Extra fine juniper of extremely slow growth with a natural compact habit. Develops into a very symmetrical columnar juniper with attractive gray-blue foliage that deepens in intensity with the winter sun and cold. Very hardy.

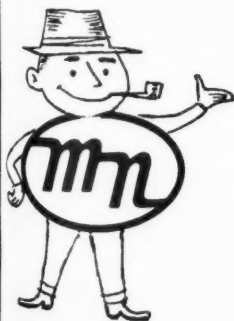


Juniperus sabina 'ARCADIA'

Zone 3

A superior strain that has proven one of the best throughout the country. A graceful spreading habit of growth covered with a glowing green foliage having a lacy texture. Considered by the nursery industry as one of the best introductions of the past decade.

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Juniperus sabina 'SKANDIA'

Zone 2

Where a low growing show-piece is desired here is an excellent choice. Rich green attractive foliage is found on this low spreading juniper.

Cuttings and scions for our plants are taken from tested and selected superior stock grown for its trueness of quality, color, and ability to perform.

MONROVIA NURSERY Co.

P.O. BOX Q, AZUSA, CALIFORNIA



NORTHERN-GROWN STOCK

Strict Grading — Well Packed
Satisfaction Guaranteed

There may be as good — none better.

TRANSPLANTS

3-yr., 2 Per 100 Per 1000

Colorado Blue Spruce			
8 to 10 ins.	\$15.00	\$120.00	
6 to 8 ins.	12.00	90.00	
4 to 6 ins.	10.00	80.00	
Black Hills Spruce			
8 to 10 ins.	15.00	120.00	
6 to 8 ins.	12.00	90.00	
4 to 6 ins.	10.00	80.00	
Norway Spruce			
12 to 18 ins.	15.00	130.00	
10 to 12 ins.	12.00	100.00	
8 to 10 ins.	10.00	80.00	
Grafting grade, 5/16 to 3/4 in. cal.	10.00	75.00	
American Arborvitae			
15 to 18 ins.	18.00	150.00	
12 to 15 ins.	15.00	100.00	
8 to 12 ins.	10.00	80.00	

SEEDLINGS

3-yr.

White Pine			
6 to 10 ins.	5.00	30.00	
3 to 6 ins.	4.00	25.00	
Scotch Pine, French			
10 to 14 ins.	5.00	27.50	
6 to 10 ins.	4.00	22.50	
Austrian Pine			
8 to 10 ins.	6.00	40.00	
6 to 8 ins.	5.00	30.00	
Douglas Fir, taxifolia glauca			
6 to 10 ins.	5.00	25.00	
Black Hills Spruce			
3 to 6 ins.	3.00	20.00	
Colorado Blue Spruce			
3 to 6 ins.	4.00	22.00	
Norway Spruce			
6 to 10 ins.	4.00	20.00	
4 to 6 ins.	3.00	15.00	
American Arborvitae			
6 to 10 ins.	4.00	35.00	
4 to 6 ins.	3.00	25.00	

Write for special prices on 2-yr. seedlings, also prices on large orders of 3-yr. seedlings.

J. R. PALMER & SON
Blackduck, Minn.

ILEX MENTOR GLOSSY

Not Patented

Growth habit is vigorous, spreading and upright, foliage is glossy dark green with a brilliant luster, harder than Ilex convexa in the Detroit and Cleveland area winters of 1959-60 and 1960-61.

Lining-out, from beds

2-yr., 6 to 9 ins., 45c each per 100
Available from:

GERARD K. KLYN NURSERY
Mentor, Ohio

LINING-OUT and FIELD-GROWN

2-yr., 6 to 9 ins., 45c each per 100	
3-yr., 9 to 12 ins., 75c each per 100	
	Each Each
	Per 10 Per 100
12 to 15 ins., B&B.....	\$2.00 \$1.75
15 to 18 ins., B&B.....	2.50 2.25
18 to 24 ins., B&B.....	3.00 2.75

NO SHIPPING—PLEASE CALL FOR:

A. SHAMMARELLO & SON NURSERY
4590 Monticello Blvd.
South Euclid 21, Ohio

For the finest in

NURSERY-GROWN SEEDLINGS

Write —
Forrest Keeling
Nursery
Elsberry, Mo.
Hugh Stevenson, Prop.

MISSOURI
GROWN
IS HARDY...

lief is the time that burning or winter injury occurs.

"I was in northern New Jersey a couple of weeks ago and no winter damage was apparent in that section."

Data on winter damage reported by Neil L. Hetz, Fairview Evergreen Nurseries, Fairview, Pa., follow:

"The combination of prolonged cold temperatures in this area, with bright sun and wind, had an adverse effect on hybrid rhododendrons, ilex, pieris and evergreen-type azaleas. Snow cover during this period was only a few inches, much below normal, so that this usual protection was lacking. In fact, the bright sunlight reflected from the snow aggravated the situation so that foliage above the snow cover was burned as badly as we have ever seen it. Buds on practically all hybrid rhododendrons and evergreen-type azaleas are blasted.

"All Ilex crenata, regardless of variety, were burned above the snow line except where they were protected from the wind. The exception is the 2-year ilex, which seemed to come through in good shape.

"On the bright side of the picture, taxus, juniper, arborvitae, chamaecyparis, common shrubs and shade trees came through in beautiful condition.

"An interesting observation was that a few Berckmans biota in the field row with no protection came through with no damage whatsoever, in spite of a 15 degree below zero temperature."

Lake County Damage

"Bright sun, little snow and severe zero and subzero temperatures in December and January caused considerable damage to some nursery stock in Ohio's Lake county," states Marie Brandstaetter, secretary of the Lake County Nurserymen's Association.

"Most nurserymen who were contacted for comments stated that damage was largely confined to burning of foliage on broad-leaved stock in general.

"Most severely damaged were boxwood; holly varieties, and ericaceous plants, including heather. Beside extensive foliage injury on azaleas and rhododendrons, flower buds also were blasted, and some nurserymen reported that even wood was frozen on azaleas, especially the evergreen types. One grower reported this is the first year young evergreens, particularly small taxus and white pines, lined out the previous fall were hurt.

"Another nurseryman said there

CHINESE CORKSCREW TREE

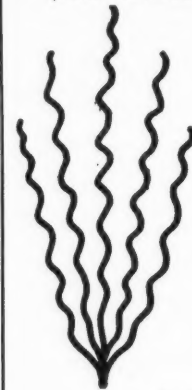
唐人咕士路

(Salix matsudana tortuosa)

Oriental Horticultural Curiosity

From the Hupeh Province of east central China. Branches both large and small grow upward with an exotic corkscrew twist.

This tree is also known in common parlance as Corkscrew Tree, Corkscrew Willow or Contorted Hankow Willow.



	Per Each	Per Dozen
4 to 5 ft.	\$2.50	\$25.00
6 to 8 ft.	3.50	35.00
8 to 10 ft. This size for nursery pick-up only	5.00	50.00

Heavy field liners, \$30.00 per 100; \$250.00 per 1000.

Pot plant liners (spring only), \$30.00 per 100; \$250.00 per 1000.

BEARDSLEE NURSERY
Perry, Ohio

THE MEAD NURSERY

Rt. 3, Box 213

Oconomowoc, Wis.

Wholesale Growers

of Landscape Stock

French Lilacs

Flowering Crab Apples

Honey Locusts

Maples -- Willows

Canoe Birches

Euonymus Fortunei

Pfitzer Junipers

Write for List

will be no sale of *Pieris japonica* this spring, because much of the heavy wood froze back. Wood on mahonia also was damaged, and *Pyracantha coccinea lalandi* froze back harder this winter than ever before. A little browning on hemlocks was also reported.

"A large grower at Perry reported little winter loss, and damage was confined to foliage, the plants themselves not being injured.

"Reports varied as to damage in different sections of the county. Nursery stock that had been protected under lath shades or reed mats was spared injury. The past midwinter months were said to have been the worst since the winter of 1947-48, when similar weather conditions existed."

Further Ohio Report

"Winter damage was not serious, and with most varieties we find just normal leaf burning or twig damage," writes Howard N. Scarff, Scarff's Nursery, Inc., New Carlisle, O. He adds:

"*Taxus* shows just a little more foliage burn than we usually expect, especially in the younger blocks, where growth was vigorous. Larger salable sizes were least affected. Mahonia foliage was completely burned, which usually occurs with us.

"The following varieties showed considerable twig damage, especially in the younger field plants: *Euonymus Newport*, *Golden Vicary* privet, *Lonicera fragrantissima* and *weigela*.

"*Pyracanthas* are showing some tip damage, where unprotected, but central canes seem to be all right. We are not growing any Japanese holly, but I understand it suffered considerable foliage injury in some locations.

"Our younger fields of boxwood suffered some from dehydration going into the winter, showing some light tip damage. Older plants just browned more than usual, but have greened up well with the spring rains.

"Spring weather was fully three weeks early here in southwest Ohio, and at this writing (March 20) we are in the midst of our seasonal digging and deliveries.

"Most nurseries in this area are anticipating a healthy spring season, both wholesale and retail. Early business to date seems to bear this out."

PETER D. THOMAS is now operating the Thomas Garden Center at Quinebaug, Conn.

QUALITY SEEDLINGS • TRANSPLANTED LINERS

Spring, 1961

	50 or more per 100	500 or more per 1000	5000 or more per 1000
<i>Taxus cuspidata capitata</i> (Upright Yew), seed-grown			
X, 10 to 14 ins.	\$30.00		
X, 6 to 10 ins.	22.50	\$165.00	\$150.00
(3-0), 4 to 8 ins.	9.00	75.00	65.00
<i>Taxus</i>, 3-yr., T.			
<i>Media hicksii</i> , 10 to 12 ins.	45.00	400.00	....
<i>Media brownii</i> , 6 to 8 ins.	45.00	400.00	....
<i>Densiflora</i> , 6 to 8 ins.	45.00	400.00	....
Pfitzer Juniper			
X, 8 to 10 ins.	35.00	....	....
Colorado Blue Spruce			
XX, 10 to 15 ins.	65.00	600.00	....
X, 10 to 14 ins.	18.00	135.00	125.00
X, 6 to 10 ins.	12.00	90.00	85.00
(3-1), 6 to 12 ins.	10.00	65.00	60.00
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.50	32.00	30.00
White Spruce			
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Black Hills Spruce			
(3-1), 5 to 10 ins.	10.00	60.00	....
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Norway Spruce			
X, 8 to 12 ins.	12.00	90.00	85.00
(3-1), 6 to 12 ins.	10.00	65.00	60.00
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Ponderosa Pine			
X, 12 to 15 ins.	10.00	60.00	....
X, 8 to 12 ins.	8.00	45.00	40.00
Austrian Pine			
X, 10 to 15 ins.	10.00	55.00	....
X, 6 to 10 ins.	8.00	40.00	38.00
Scotch Pine, Auvergne			
XX, 15 to 18 ins.	40.00	....	....
(2-1), 3 to 6 ins.	8.00	32.00	28.00
(3-0), 10 to 16 ins.	6.00	26.00	22.00
(3-0), 6 to 16 ins.	6.00	23.00	19.00
(3-0), 6 to 10 ins.	6.00	20.00	16.00
Douglas Fir (<i>Taxifolia glauca</i>)			
(2-1), 5 to 10 ins.	8.00	35.00	32.50
(3-0), 8 to 12 ins.	8.00	35.00	32.50
(3-0), 4 to 12 ins.	7.00	30.00	27.50
(3-0), 4 to 8 ins.	6.00	27.50	25.00

Illustrated list sent on request. Samples of transplant sizes at 100 rate; seedlings no charge.

Order minimum \$10.00, transplants 10, seedlings 50.

MATTHEWS NURSERY

Harbor Springs, Mich.

Telephones: 123 or 732

NURSERY-GROWN SEEDLINGS

Pin Oak (*Quercus palustris*)

Red Oak (*Quercus borealis rubra*)

	Per 100	Per 1000		Per 100	Per 1000
9 to 12 ins., heavy	\$ 6.00	\$ 55.00	2 to 3 ft., heavy	\$17.00	\$140.00
12 to 18 ins., heavy	8.00	75.00	3 to 4 ft., lightly br. ...	22.00	190.00
18 to 24 ins., heavy	12.00	100.00	4 to 5 ft., lightly br. ...	30.00	250.00

We also have a plentiful supply of larger Pin Oak; also Red and White Oak, B&B sizes. All nursery grown.

Cash with order. No packing charge.

Haggerty's

LANDSCAPE NURSERY

2600 S. 48th St., Lincoln, Neb.

TAXUS CUTTINGS

Order now for June 1 delivery.

Send for list.

LITTLEFORD NURSERIES
Vincennes, Ind.

KYLE'S Garden and

Floral Center
1340 W. Jackson St. EL 4-8198
Painesville, Ohio

CHRISTMAS TREES

Scotch and Austrian Pine
Send for Our Price List

Container Stock, Weed Control, Among Topics at Ohio School

By Fred K. Buscher

Dr. K. W. Reisch, Ohio State University, Columbus, urged Cleveland area nurserymen attending the winter school of the Cuyahoga County Nurserymen's Association not to dismiss container growing as a mere gimmick, but to consider seriously its potentialities for increased production and sales.

Other faculty members of the university and experiment station speaking at the sessions held February 23 at the Lake Shore Country Club, Cleveland, presented recommendations for chemical weed control in the nursery, a discussion of quality in ornamental trees and reports on Ohio plant diseases and insects.

Award to Buscher

The event was also marked by presentation of an honorary affiliate membership in the Ohio Nurserymen's Association to Fred K. Buscher, Cuyahoga county agricultural agent. Joseph Kern, Kern Rose Nursery, Mentor, presented the framed membership plaque in recognition of Mr. Buscher's extension work with the nursery trade.

Opening the morning session, Dr. Reisch stated that too many growers consider container-grown stock a gimmick and overlook the possibilities for increased production and sales that it offers. California growers, who produce 30,000 to 35,000 container-grown plants per acre as compared with the 5,000 to 8,000 plants per acre produced in Ohio, have found that as the demand for container-grown plants increases, so also does the demand for larger-size materials.

Container-grown plants can extend the planting season, reduce loss in transplanting and encourage earlier sales, and growth can be more closely and easily controlled through the recommended cultural practices. Some of these practices, however, were cited as disadvantages of the system. For example, frequent irrigation and fertilization are necessary, along with adequate winter protection.

Dr. Reisch recommended that nurserymen learn the facts of container production before including it in their operations and heed carefully the cultural requirements of container stock. The growing medium should

be sterilized and well drained and should be duplicated from one year to the next, though the choice of a specific soil mix is not so important as proper cultural methods. Ohio growers of container stock, he advised, will probably find a period of trial and error unavoidable. Local weather conditions, for instance, will influence the selection of stock that can be grown profitably.

Weed Control

Reviewing chemical control of weeds in the nursery, Marvin C. Carbonneau, extension floriculturist, stated that weed control programs should be begun prior to field planting, by creating a weed-free area, and should include cultural and chemical methods.

Where thistle, quack grass, bindweed and other species are problems, herbicide applications should be made before field liners are transplanted into the area, when one can use a concentration of the chemical

high enough to kill noxious weeds easily. Many broad-leaved weeds, however, are readily killed by herbicides in field rows without injury to the stock, large established plants being more tolerant in this regard than liners. Layered plants can be damaged by 2, 4-D herbicides.

Herbicides mentioned for control of noxious weeds were amino triazole for Canada thistle, Dowpon (dalapon) for quack grass, and 2,4-D (amine salt) for bindweed. Broad-leaved weeds and grasses in shade tree blocks can be controlled with amino triazole. For a general clean-up of weeds between frames, walks, etc., a combination of Dowpon and amino triazole can be used.

General weed control in nursery stock in the fall to prevent early spring weed growth can be accomplished with Simazine at one and one-half to two pounds per acre. It can be used in early spring applications as a pre-emergence weed spray. Spring and summer applications of Simazine and combinations of Sesone and Telvar have shown promise.

Mr. Carbonneau emphasized the necessity of reading herbicide labels thoroughly before application. He stressed that growers without previous experience or information should

TEUCRIUM CHAMAEDRYS

Attractive evergreen hardy border plant for edging walks and gardens. Foliage resembles English boxwood.

TOP-SIZED FIELD PLANTS

\$20.00 per 100

\$180.00 per 1000

WELL-ROOTED CUTTINGS

\$5.00 per 100

\$45.00 per 1000

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LANDSCAPE MATERIAL IN QUANTITY

Norway Spruce, 3 to 7 ft.
White Pine, 3 to 9 ft.
Austrian Pine, 4 to 9 ft.
Scotch Pine, 3 to 9 ft.
Red Pine, 3 to 10 ft.
Norway Maple, 1½ to 3-in. cal.
Crimson King Maple, 1½ to 2-in. cal.
Flowering Crab Apples, 6 to 8 ft.
Sweet Gum, 1½ to 2-in. cal.

WADE & GATTON NURSERIES

Rt. 3 Bellville, Ohio
Phone: Butler TU 3-3191

FINE SPECIMEN PIN OAK

(*Quercus palustris*)

For Landscape

	Per 10	Per 100
8 to 10 ft.	\$ 85.00	\$ 800.00
1½ to 2-in. cal.	110.00	1000.00
2 to 2½-in. cal.	150.00	1400.00
2½ to 3-in. cal.	200.00	.....
3 to 3½-in. cal.	250.00	.....

Larger sizes available; other varieties of shade trees also. Send us your want list. We operate our own semitrailer and can deliver full loads anywhere or pool shipments to many areas.

LEAVENWORTH NURSERIES

L. C. Gatewood Betty Gatewood
12th and Vilas, Leavenworth, Kan.

contact their county agents or extension specialists before attempting to apply weed killers.

Factors in Tree Choice

In his presentation, Dr. L. C. Chadwick, department of horticulture, O. S. U., cited four considerations in tree selection, the first of which was the soil condition and general environment in which the tree is to grow. The tree's suitability for a certain location, such as beneath utility wires or bordering a parking area, was the second consideration, the third being the over-all effect of the tree in shape and appearance.

The final factor and the most difficult to assess is quality. Quality must be measured with reference to the species or variety in question and is affected by hardiness, durability, adaptability and longevity. Nurserymen preoccupied with production problems often neglect quality standards, stated Dr. Chadwick. Ease of transplanting or fast growth for quick sales does not determine tree quality.

He considers habit of growth, fruit, flowers and foliage a tree's main characteristics. Since no plant is totally immune to insects or disease, this characteristic is not a primary one. Nor is tree removal cost an important factor, according to Dr. Chadwick, if the tree fills a need while it is alive.

Robert Partyka, extension plant pathologist, described the diseases most frequently reported in Ohio last year, including scab of pyracantha and flowering crab apple, Hawthorn rust, juniper blight, anthracnose of oak and sycamore and black spot and powdery mildew of rose. Increasing were bacterial crown galls of herbaceous and woody plants and virus diseases. In his remarks on control, Mr. Partyka stressed the importance of using spreader-stickers in fungicide spray solutions.

Prevalent Insects

Experiment station entomologist R. B. Neiswander presented control measures for the insects and mites most often reported by state nursery inspectors in Ohio nurseries during 1960.

They included bagworms, European pine-shoot moth, leaf hoppers, Japanese beetle, pine-bark aphid and eastern spruce-gall aphid. Five species of leaf miner among the more important pests reported were birch-leaf miner, arborvitae-leaf miner, azalea-leaf miner and the American holly and inkberry-leaf miner.

Tony Shammarello, A. Sham-

EVERGREEN FARM NURSERY

Scotch Pine

French Green, Scotch Highland, East Anglia

	Per 100	Per 1000	Per 1000	Per 1000
			10,000	100,000
(2-0), 2 to 4 ins.	\$3.00	\$11.00	\$10.00	\$ 8.00
(2-0), 3 to 6 ins.	3.50	16.00	15.00	12.50
(2-0), 4 to 8 ins.	4.00	20.00	18.00	15.00
(3-0), 7 to 14 ins.	4.50	21.00	20.00	17.50

Austrian Pine

(2-0), 3 to 6 ins.	3.50	13.00	12.00
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3871 Remembrance Rd.

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JEWELL NURSERIES, Inc.

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Box 457, LAKE CITY, MINN.

marello & Son Nursery, South Euclid, president of the Cuyahoga County Nurserymen's Association, presided over the morning session of the school, Vice-president Nelson Slansky, Evergreen Farm Nursery, Strongsville, taking over as presiding chairman during the afternoon.

WASHINGTON SHOW

[Continued from page 16]

semiformal rose garden with beds of the firm's leading rose varieties surrounding a grassy area. A raised brick bed on the right-hand side of the garden was planted with a garden of the firm's miniature rose varieties, with all the materials used in the garden also in miniature scale.

Gustin Gardens, Inc., Rockville, Md., was awarded a first prize for a garden with a Japanese influence. The garden, planted in the foreground of a facade of a Japanese house, featured all of the basic elements of Japanese garden design. Some of the plants used included andromeda, cut-leaved Japanese maple, ferns, pine and spring bulbs.

Hill's Camellia Gardens, Arlington, Va., won a first prize for a terraced garden using weathered railroad ties, with each terraced area planted with camellias and heather. A terraced area in the center held a modern metal statue.

Heronwood Nursery, Upperville, Va., was given a first prize for a garden which featured three specimen topiary boxwoods.

Summit Hall Turf Farm, Gaithersburg, Md., won first prize for a formal green and white turf garden enclosed with a flagstone wall. A raised planting bed which faced the entrance held white tulips and azaleas, with two flowering camellia shrubs alongside a stone garden statue. Boxwood used at each side of the entrance was underplanted with ivy.

J. T. Patton & Sons, Silver Springs, Md., gained second prize for a semiformal garden which featured a lawn area edged with yellow

New and Coming Sure-Fire Roses

BINGO

(Plant Pat. No. 1392)

A deep red hybrid tea with grandiflora tendencies. A. R. S. rating 7.5.

Suggested retail, \$2.25.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
\$1.40	\$1.25	\$1.125	\$1.05

Each 250 and up, 95c

PINK FRAGRANCE

(Plant Pat. No. 1493). A. R. S. 1958, 7.6.

A many-petaled pink rose with outstanding, lustrous foliage. Suggested retail, \$2.50.

Each	Each	Each	Each
1 to 9	10 to 19	20 to 99	100 to 249
\$1.60	\$1.40	\$1.25	\$1.20

Each 250 and up, \$1.10

ORDER THESE ROSES FROM ANY OF THE FOLLOWING NURSERIES:

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Shenandoah Nursery
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Elmer Roses
6708 N. San Gabriel
San Gabriel, Calif.

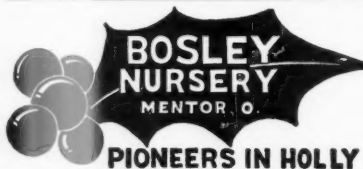
PIN OAK SEEDLINGS

Quercus palustris

	Per 100	Per 1000
6 to 12 ins.	\$ 6.00	\$ 55.00
12 to 18 ins.	8.00	75.00
18 to 24 ins.	12.00	100.00
2 to 3 ft.	17.00	140.00

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	Per 100	Per 1000
Cutback liners	\$ 5.00	\$ 45.00
12 to 15 ins., 1-yr.	15.00	135.00
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ORNAMENTALS
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\$10.00 Per 100

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Large, dark green, glossy leaves. Quality plants for landscaping and counter sales.

Complete list of plants furnished upon request.

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Urbana, Ohio

chrysanthemums. Broad-leaved evergreens were used as a background.

A. Gude Sons Co., Rockville, Md., won a first prize for an azalea garden, with Louis Hahn & Sons, Pittsburgh, Pa., second in the same competition. The Hahn firm won a first prize for an azalea and rhododendron garden.

Jack T. Irwin, Inc., Rockville, Md., was given a second prize for an informal rock garden. Lawn Golf Turf Grass Engineering, Springfield, Va., was the recipient of a second prize for a miniature putting green area. Thomas E. Carroll & Sons, Silver Spring, Md., showed a simulated green area as part of an over-all garden design.

SELECTIVE SELLING

[Concluded from page 6]

ence would be the most fruitful field for selective advertising. This avenue is already used by landscape firms issuing monthly or quarterly information circulars or letters. It can be greatly enlarged.

The do-it-yourself market is said to be the second largest. Possibly packaged services and even packaged plantings might be developed to speed and enlarge sales in this category.

The Athens survey emphasized that the older established homes should not be forgotten, for they are important prospects for sales of stock, and they could be made even more important by developing owners' interest in plants and the appearance of their premises.

The practice of selective selling is important to most nurserymen, because of their small advertising budgets. With study and planning in this direction, their advertising dollars can go farther.

JOHN FREUND has started Freund's Nursery on State Route 118, near Van Wert, O.

The Homestead Nurseries

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Specializing in hardy Rhododendrons and Azaleas, Acer, Fagus, Ornamental Trees and Shrubs, Perennials in leading varieties. Quality stock. Trade list on request. Ocean and air freight.

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	Heavy	Each
5 to 6 ft., B&B	\$ 4.75
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CAROLINA HEMLOCK

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Grapes

Currants

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Write for Wholesale Price List

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69 Orchard St. FREDONIA, N. Y.

PLANT NOTES HERE AND THERE

By C. W. Wood

Odds and Ends

I have been going over my old notebooks, collecting brief notes which I thought might interest American Nurseryman readers and also might contain hints to be used profitably in their own work. They are too short for extended comment, so will be further condensed for use in this "odds and ends" department.

One year I propagated too many hepaticas; so, before winter arrived, I potted about 100 and put them in a frame, where they would be available when wanted. The pots were brought into gentle heat about four or five weeks before they were wanted in bloom, and were marketed through florists' shops in surrounding towns at a fair profit.

If one has access to a quantity of native cypripediums, including *C. acaule*, *C. candidum* and what we formerly knew as *C. pubescens*, they may be handled like hepaticas previously mentioned for March and April flowering.

I had a letter recently from an English friend which contained a note on the golden oak, *Quercus alnifolia*, that may contain a hint for growers who are interested in bonsai. He wrote, in part, as follows:

"I have a 6-year-old specimen of the golden oak in a 6-inch pot which is now about two feet tall. It could have been kept lower than that if I had root-pruned it more, given it poorer soil and had used the knife on it. I keep it in my unheated alpine house. The species comes from Cyprus, so is not hardy enough for open-air culture in the midlands. As you probably know, the golden felt which covers the underside of the evergreen leaves is what gives the plant the ornamental value."

Without entering into a fruitless discussion of the naming of the plant which we formerly knew as *Geranium subcaulescens*, may I offer a few suggestions on the plant? I recently came upon a note in a 1948 notebook on *G. subcaulescens*, now made a variety of *G. cinereum*. It read as follows: "A new batch of plants grown from seeds saved in an English garden, in which color variations of that species, *G. argenteum* and *G. cinereum* have been selected, gave us a hint of what they have in store for the investigator. There were

two or three plants with cherry-red flowers, a shade rare in the genus. There are several so-called reds, but they usually have blue in their make-up, are rosy red, or a poor shade of magenta." I did not have time to pursue the matter further, so turned the plants over to a friend in Texas, who lost them because of a string of unpreventable accidents. But it points out the fact that the hardy geraniums may be made to yield a good red color.

Paeonia Woodwardi

I came upon a note recently in one of my old garden books which may benefit growers in areas a little warmer than northern Michigan. It concerns a plant received here in seeds as *Paeonia Woodwardi*, which may be the same as *P. woodwardiana*, mentioned in "Hortus" as a "listed name." I know nothing about its botanical standing and am not greatly interested, but I am inter-

ested in its garden value. And that must be great, perhaps south of the Ohio. It has appeared in my trials for four or five years.

It came to me as *P. woodwardi* from western China, apparently from the same territory as *P. veitchii*; in fact it has so many close resemblances to the latter that botanists may finally decide that it is a variant of that species, but it is quite distinct in many garden ways. I shall forego a comparison of the two kinds, for I doubt if the differences would be of interest to nurserymen readers, but will examine *woodwardi* briefly from the garden standpoint. It made clumps of deeply divided leaves, much on the order of *P. veitchii*, with slightly arching stems bearing from one to several single flowers, to three or four inches across, with crimped petals in varying shades of pink, commencing by mid-June. The variation in flower color offers the plant breeder a fertile field for his prowess, in

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Parker, S. D.

Jan de Graaff's

OREGON BULB FARMS
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HARDY ENGLISH IVY, HARDY BALTIC IVY

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\$7.50 per 100; \$65.00 per 1000.

Peat pots.
\$18.00 per 100; \$150.00 per 1000.
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We can market up to solid truck lots of single or assorted items. Lesser quantities also of interest.

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NEWPORT NURSERY CO.
Newport, Mich.

FLORIDA - GROWN CITRUS

4-in. and 6-in. plastic pots.

Write for prices.

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Pembroke, Fla.

CONTAINER-GROWN STOCK

Our container-grown nursery stock is the very best quality produced in the south. We have given very careful attention to soil mixture, feeding, watering and general care. We are very proud of this container-grown stock and justly so.

Container-grown stock can be planted any time during the year, and we advise you to get your supply early. You have the advantage of a better selection, as well as being able to offer your customers their stock earlier. You profit by bringing people into your establishment first.

All one-gallon items are grown in green Plantainers. All two-gallon items are grown in green 8-inch Nursericans.

For full truckloads we can arrange for very economical transportation. Available trucks can haul from 4200 to 4500 one-gallon container-grown plants—door-to-door delivery—at a very low cost.

MINIMUM ORDER—25 plants of one variety. 250 plants or more of one variety take the 1000 rate.

	Each per 100	Each per 1000		Each per 100	Each per 1000		Each per 100	Each per 1000
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1-gal.	\$0.60	\$0.55	1-gal.	\$0.65	\$0.60	1-gal.	\$0.65	\$0.60
ILEX CRENATA BULLATA			LIGUSTRUM LUCIDUM COMPACTUM			2-gal.	1.50	1.40
1-gal. ....	.65	.60	1-gal. ....	.60	.55	PYRACANTHA CRENATA-SERRATA GRABERI		
2-gal.	1.15	1.00	LIRIOPE MUSCARI MAJESTIC			1-gal. ....	.65	.60
ILEX CRENATA DIVARICATA			1-gal. ....	.60	.55	PYRACANTHA FORMOSANA		
1-gal. ....	.60	.55	LIRIOPE MUSCARI VARIEGATA			1-gal. ....	.65	.60
ILEX CRENATA HETZI			1-gal.65	.60	PYRACANTHA GOVERNMENT RED		
1-gal.65	.60				1-gal.65	.60
2-gal.	1.15	1.00						

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6 to 8 ins.	17.00	150.00
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Crimson Tide		
6 to 8 ins.	20.00	180.00
8 to 12 ins.	22.50	200.00
Dainty Pink		
6 to 8 ins.	17.00	150.00
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Daydream		
6 to 8 ins.	17.00	150.00
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Hino-de-Gumo		
6 to 8 ins.	17.00	150.00
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6 to 8 ins.	20.00	180.00
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Miss Auburn		
6 to 8 ins.	20.00	180.00
8 to 12 ins.	22.50	200.00
Rosea		
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
Texas Star		
6 to 8 ins.	17.00	150.00
ELAEAGNUS FRUITLANDI		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
FELJOA (Pineapple Guava)		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00

	100	1000
GARDENIA FORTUNEI		
8 to 12 ins.	\$12.00	\$110.00
12 to 18 ins.	15.00	140.00
GARDENIA MYSTERY		
8 to 12 ins.	12.00	110.00
12 to 18 ins.	15.00	140.00
GARDENIA RADICANS		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
GINKGO BILOBA (Seedlings)		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
ILEX CRENATA BUXIFOLIA		
4 to 6 ins.	15.00	140.00
6 to 8 ins.	17.00	150.00
8 to 12 ins.	20.00	180.00
ILEX CRENATA MICROPHYLLA		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
ILEX CRENATA REPANDENS		
4 to 6 ins.	12.00	110.00
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
ILEX CRENATA ROTUNDIFOLIA		
4 to 6 ins.	10.00	90.00
6 to 8 ins.	12.00	110.00
ILEX VOMITORIA DWARF (Dwarf Yaupon)		
4 to 6 ins.	15.00	140.00
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18 to 24 ins.	20.00	180.00
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6 to 8 ins.	15.00	140.00
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6 to 8 ins.	15.00	140.00
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6 to 8 ins.	35.00	300.00
2-yr. Liners		
8 to 12 ins.	40.00	350.00
2-yr. Liners		
12 to 15 ins.	45.00	400.00

	100	1000
MAGNOLIA GRANDIFLORA		
8 to 12 ins.	\$17.00	\$150.00
12 to 18 ins.	20.00	180.00
18 to 24 ins.	22.50	200.00
NANDINA DOMESTICA		
6 to 8 ins.	15.00	140.00
8 to 12 ins.	17.00	150.00
OSMANTHUS SAN JOSE		
6 to 8 ins.	12.00	110.00
8 to 12 ins.	15.00	140.00
PHOTINIA GLABRA		
6 to 8 ins.	12.00	110.00
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my opinion. It seemed undemanding in my trials, doing well in several situations, but perhaps best in the light shade of a sparsely-leaved wild cherry tree. Unfortunately it did not prove to be entirely hardy and finally succumbed.

I had not seen the yellow root, *Xanthorhiza simplicissima* (*Xanthorhiza apiifolia*) for several years when I saw a nice planting of it last fall after the leaves had taken on their lovely bronzed tones before falling. That reminded me that the plant is

especially desirable when fall color is wanted.

It is a deciduous, small (two feet or so) shrub of the crowfoot family, with deeply toothed, pinnate (three to five leaflets) leaves, to three inches in length. These leaves are the plant's fortune so far as the gardener is concerned, the small, purplish flowers being of little ornamental value. It grows naturally along streams in the eastern states from New York to Georgia. Propagation is from divisions of the creeping roots.

This is a brief note on a western skullcap, *Scutellaria tuberosa*, which may interest readers in the warmer part of the nation. I find it in my notes for 1935, after two trials from different parts of the west (Carl Purdy in California and Fred Borsch in Oregon).

"*Scutellaria tuberosa* seems to be unique in the genus in that its roots become fat with age, reminding one somewhat of *Asparagus sprengeri*. These tuberous roots run all through the area surrounding the plant and

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48 to 52 ins.	2.50
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could, I believe, prove to be troublesome. Yet, that mat of tuberous roots could prove of great value as a soil binder on difficult slopes. In addition the 6-inch stems carry short spikes of violet to purple trumpets for a long time, commencing in July. It seems to me to be a plant of much promise if it proves to be hardy."

The Purdy plants were definitely not hardy, but I kept the Oregon stock going for several years. However, I believe it could prove troublesome in the south if used in border plantings; on the other hand, if introduced into unconsidered places or on dry sunny banks, where little else will grow, it is likely to be most helpful.

Diotis Candidissima

The first inquiry I have is on the European cottonweed, *Diotis candidissima*. Although the letter does not say so, the inquirer lives in a section of heavy clay soil, so I should expect some trouble in its culture unless special pains are taken to give it perfect drainage.

Diotis is a monotypic genus of the composite family, inhabiting the seashores of western Europe, where it is always assured of good drainage—preferably in sunshine. In my experience, no plant with cottony leaves can be happy for any length of time in a heavy soil that is not well drained. Even in light soil, *D. candidissima* did not long survive when it was grown in frames and ice froze over the crowns in spring; in the field, however, where water drained away rapidly, it was long lived and always presentable. There, it would create a lovely carpet of white woolly leaves, about a half-inch long, reminding one, in some ways, of the dusty miller. The flower heads, closely resembling the achilleas, appeared in August and early September in my trials, on stems six to eight inches in length. It is easily grown from fall-sown seeds and from cuttings in spring.

Hepatica

A Vermont reader writes, in part, as follows: "Is *Hepatica americana* a likely sales subject? How can it be propagated? Can you get separate colors only by division, or might the seeds come true?"

My first impulse was to say without any qualifications that *hepatica* is a good sales item, but second thought leads me to state that local conditions might prove otherwise. For instance, if one operated in a rural area where *hepaticas* grew naturally on every hand, there might

not be any market for the plants. And I suppose there are sophisticated gardeners who do not care for the natives, others who only use plants which make a big showing in their gardens, and still others whose interests run only to flowers for the modern obsession—flower arranging. But generally speaking, I should expect good hepatics to be one of the neighborhood grower's main spring items.

As the inquirer no doubt knows, hepatica flower color is highly variable, running from white and cream through myriad shades of pink to lavender, blue and purple. Most of its colors are desirable and may be grown from fall-sown seeds, but when one finds an outstanding shade, then vegetative reproduction must be resorted to. And that, so far as I know, is best done by division of the crowns in August, wintering the divisions in leafy soil in a protected frame.

Inula Royleana

I am sure it is safe to tell a North Carolina reader that *Inula royleana* would be entirely hardy in that state. It is not really tender and should be hardy as far north as the Ohio river. Where it is hardy (it was not reliably so here in northern Michigan), it should make an ornament in the sunny garden. It has the amiable traits of the *inula* tribe, being satisfied with almost anything one has to offer in the way of care. Its height of 20 inches will tell one that it is well-suited to a forward place in the border, and its behavior will tell one it is best in a rich soil in full sun. It was at its best here, according to my notes, in August, a most propitious time for a plant to put on its performance to attract the favorable attention of gardeners. Its offering is big (to four or five inches in diameter), golden suns, narrow petaled and slightly reflexed. It may be grown with ease from seeds planted in late fall or early spring and from divisions. In fact plants should be divided every third or fourth year if they are to be kept at their best.

Erythronium Culture

A Missouri reader reports that he has been having trouble with western erythroniums and wonders what is wrong with his method, which includes planting the bulbs in a leafy soil in part shade and keeping weeds under control. I am not sure that I can tell him all he wants to know, but I can recapitulate the conclusions I reached after several years of efforts, working in the dark soon

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American Linden, few 3-in. cal., also 6 to 8 ft. and 8 to 10 ft.
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after the bulbs were made available to eastern gardeners by Carl Purdy, Theodore Payne and a few other western collectors in the early years of this century.

When I commenced to grow them, it was largely a matter of trial and error, with the result that several kinds, which I later found were inhabitants of the high mountains, proved to be so intractable that the entire group earned a poor reputation in my mind.

If I had read Applegate's studies then, I should have known that the kinds with unmottled, green leaves and generally white, cream or yellow flowers belong to the section called *concolorae* by the botanists, that they are mostly mountaineers and almost without exception are difficult of cultivation in lowland gardens. These include, among others, *E. grandiflorum*, *E. montanum*, *E. purpurascens* and *E. tuolumnense*. Unless one welcomes headaches, these could well be left alone.

On the other hand, the section known to the botanists as *pardalinae*, which are generally lowlanders, can be approached with some degree of confidence of success, if one remembers a few essentials: Maintain a well-drained soil; provide moisture while the plants are in a vegetative state, and offer them shelter from the sun, at least in the climate of the midwest. The shade of evergreens is not needed, as one sometimes reads, and in general was detrimental in my trials. But moisture during the plant's vegetative period is most essential.

Use of seeds is the only feasible method of propagation that I know. It is, however, a slow process but quite sure in the hands of the careful gardener. The place where trouble is likely to crop up is in handling the bulbs. I quickly learned, after receiving desiccated bulbs from collectors, that poor handling had been the source of poor results as

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reported by amateur gardeners through the years. And it did not take long to establish the fact that the bulbs must not be exposed to a dry atmosphere for any length of time. So it was not surprising when I found that bulbs put in damp moss as soon as dug and kept there until planted again, be the period two days or two weeks, meant success rather than disappointment.

GARDEN CENTER COURSE

[Continued from page 8]

effective merchandising tool. The short season in Minnesota opens the opportunity to sell equipment and materials for semishelter that will help extend the outdoor season.

Hugh Slugg, W. G. Slugg Seed & Fertilizer, Inc., spoke of the "Rights of Merchandising" as follows:

1. The garden store operator must have the right merchandise. He must strive to satisfy the customers' wants.

2. The merchandise must be displayed in the right place in the sales area. It must be seen. It must be convenient for the customer.

3. The price must be right, assuring a profit for the operator and meeting the customer's budget restrictions.

4. The quantity must be right. Supplies should be stocked in container sizes that fit the needs of the customer. Merchandise should be packaged in alternative sizes.

Noting that garden tools are difficult to merchandise, being extremely competitive with other market sources, Mr. Slugg advised that tie-in sales have been effective in marketing these items.

The layout should be planned to maximize display space. Ideally, shelves should be placed shoulder high. Demand items should be placed strategically to take advantage of impulse buying. The garden center operator may find it helpful to make a diagram of his store and scale models of his display fixtures. Using these, he can try various arrangements in order to develop the best sales area for the store.

Care of Plants

Poor planting stock is poor public relations. One dead rosebush means one lost customer. It is the responsibility of the garden store operator to place in the hands of the customer a plant that is living, in good condition and capable of growth. These and the following points were brought out in a talk presented by Dr. John P. Mahlstede, Iowa State University, Ames.

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Potted roses move quickly in the garden store. When blooms are present the plants have more customer appeal. The roses should be planted in pots and held in a cold-frame until April 30, when they may be moved to the display area as needed.

Balled and burlapped stock should be heeled-in in the sales bin in shingletow or peat moss, which should be kept moist. When watering, one should be careful to water the soil ball directly, since the mulch competes for moisture, drawing it away from the center of the soil mass. A water wand is helpful for watering the soil ball.

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Plants have a unique ability to adapt themselves to changes in environmental conditions. However, the degree to which a plant can adjust is controlled by its genetic make-up. Dr. Leon Snyder, University of Minnesota, explained the basic physiological processes which result in plant growth. By understanding the physiological aspects of nursery materials it is possible to recommend plants more specifically as to their site preferences. Also it is possible to adjust certain environmental aspects to fit the plant.

The last speaker on the program, Dr. A. E. Hutchins, department of horticulture, University of Minnesota, explained how research is conducted to form the basis for university recommendations.

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Long Island Tree Meeting Features Elections, Talk on Fruit Tree Pruning

By Robin Todd

Lawrence Borger, Bayside, was elected president of the Long Island Arborists' Association at a recent meeting. Also named were Dennis Maud, Patchogue, first vice-president; Olaf Viste, Huntington, second vice-president, and Charles Burst, Huntington, third vice-president. Prof. Daniel Dowd, New York State University, Farmingdale, L. I., was elected secretary-treasurer.

Professor Dowd will serve on the board of directors, as will Nick Manella, Brightwaters, past president, and Robert Felix Hempstead, a newly named member. William Titus, Nassau county extension service, and Robert Brewster, Suffolk county extension service, are ex-officio members of the board.

Pruning Fruit Trees

Prof. Norman Foote, head of the department of agriculture at the New York State university at Farmingdale, spoke on pruning apples, pears and peaches at the past meeting of the group. In order to insure good bloom, Professor Foote suggested annual pruning. He thought that on a mature tree at least one tenth should be removed each year. He conceded that fruit trees grown in urban areas are grown primarily for their flowers, as it is usually cheaper for homeowners in metropolitan counties to buy fruit rather than produce it. He felt that these trees nevertheless should be pruned annually.

Although pruning may stimulate growth, especially near the cut, most of the time it is a dwarfing, stunting or shocking jolt to any tree. In addition to pruning, the arborist should also fertilize the tree. The carbohydrate ratio of 40 to 1 of nitrogen is desirable. For this reason, during fruit bud differentiating, it is important to have a good dark green color in the leaves of the trees.

Safety is important in pruning fruit trees as it is with any other tree or ornamental.

Professor Foote suggested these steps when pruning. Look at the fruit tree from a distance and decide what should be pruned out and

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This work has long been the standard reference of specialists in rhododendrons and azaleas, but is written in interesting language comprehensible to the practical gardener or nurseryman. All phases of culture and propagation are covered, as well as descriptions of the many species and varieties, including recent introductions.

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Commercial Nursery Co.
Decherd, Tennessee
Wholesale Nurserymen Since 1900

CANNED PLANTS

Build profits with Wight's container-grown
evergreens. Wide assortment, including
flex, Magnolia, Camellias, Pyracantha.
Ask for wholesale list.

Wight NURSERIES CAIRO, GA.

Quality Plants Since 1841

HILLENMEYER
Nurseries
GEORGETOWN RD.
ON U.S. 25 NORTH
LEXINGTON, KY.

perhaps talk over the subject with the client. The ideal shape of an apple or pear tree is oblong, though a pear tree should be more columnar than an apple tree. Most orchards follow the rule that trees should be two times as wide as they are high. Peach trees bloom on younger than 1-year-old wood; so when pruning such trees, one should remember that the wood is weaker and good crotches should be developed constantly; also there is more whittling, or the making of small cuts.

After observing the shape of the tree, the next step one should take is to go around each tree once and perform the major cuts first, then go around a second time and make the small cuts. Next, use a ladder and from its added height make all necessary big cuts and follow by making the small cuts at ladder height. The final step is to prune out the middle.

Dr. Foote stated that too often pruners attack a tree from one side and gradually work through the entire tree, only to step back and find that they were either too heavy or too light in their cutting or pruning operation.

From a practical standpoint, most orchards can devote only about 15 minutes per tree per pruning, but Dr. Foote thinks that arborists should spend about 45 to 60 minutes per mature fruit tree to do the type of pruning job he suggested.

Slides Depicted Techniques

His excellent Kodachrome slides brought out the points that were covered. The speaker showed how branches should be well off the ground, because the weight of the fruit carries them down. There were excellent pictures of situations in which weak-crotched trees were destroyed by the weight of fruit.

In the question and answer period, Professor Foote suggested the old standby, broadcast fertilizing, for fruit trees. He was of the opinion that foliar sprays have an excellent potential, but need further development. There should be a definite balance between the fertilizing and the pruning programs.

Pruning may be done at any time of the year, although it is easier to see the application in the winter. Pruning is usually done by arborists in the winter in order to adjust their work loads.

SCHEDULED for opening about April 1 were new garden center facilities for the Mitchell Nursery Co., Blooming Prairie, Minn.

HILSCHER FIRM EXPANDS

Hilscher Nursery & Garden Center, Fort Worth, Tex., has opened its second yard and garden business in the Fair East shopping center. The new location will be managed by Mrs. L. J. Hilscher, whose husband and his father, O. P. Hilscher, own the nursery firm. The business was started by the elder Hilscher about 40 years ago. The new center will offer a complete line of nursery stock, as well as trimming, spraying, landscaping and sprinkler system services.

NEW ENGLAND SHOW

[Concluded from page 14]

foreground. Intermingled was *Pieris floribunda*, and *ilex* was along the path.

The coveted president's cup for the most meritorious display went to Weston Nurseries, Inc., Hopkinton, Mass., along with a gold medal and first prize. A stone bridge over a pool led to a path which lost itself in the woodlands. Used were masses of mountain laurel, hemlocks, pine and birch, with a foreground planting of primroses and daphne.

Educational Features

An outstanding educational scientific exhibit by the University of Massachusetts suggested new opportunities in horticultural research, for example, in growth retardants.

Another educational exhibit was that of the Arnold Arboretum, Jamaica Plain, Mass., featuring areas of origin of many cultivated plants, using a huge map of the world. There were evergreens from the north, alpine plants in high regions and tropical plants in the hot zones, making a most rewarding exhibit.

Another garden that captured a gold medal and first prize was designed by Arthur R. Leiby, Weston, Mass., featuring a city garden terrace and pool. The pool was bordered by ivy and white grape hyacinths. The background showed pine, birch and cotoneasters, while tulips and narcissi appeared in the foreground. The upper level had timber seats.

DISCONTINUANCE of the Evergreen Gardens Nursery, Lexington, Ky., because of sale of the land by the owner, has been reported by Milan Rafayko, operating partner in the business. Mr. Rafayko plans to relocate at Barterville, Ky., conducting his own nursery under a new name style.

ORIENTAL MAGNOLIAS

LINING-OUT SIZES

We just finished a cold storage plant to hold Oriental Magnolias and have some of the finest liners we have ever grown. You can order with confidence and we can ship whenever you are ready.

MAGNOLIA ALEXANDRINA MAGNOLIA RUSTICA RUBRA MAGNOLIA SOULANGIANA

	100	1000
8 to 12 ins.	\$35.00	\$300.00
12 to 18 ins.	40.00	350.00
18 to 24 ins.	45.00	400.00
2 to 3 ft., soulangiana only	55.00	500.00

MAGNOLIA STELLATA

(Star Magnolia)

12 to 15 ins.	45.00	400.00
15 to 18 ins.	50.00	450.00

250 or more of one size and variety takes the 1000 rate.

BLACKWELL NURSERIES

Semmes, Ala.

WHOLESALE ONLY

KRIEGER'S' WHOLESALE NURSERY

P. O. Box 116, Phone: Hopkins 5-5522 Bridgman, Mich.
Originators and Growers of these fine Blackberries.



TRUE TO NAME
NO STERILE
PLANTS



Blackberries

Guaranteed to bear fruit

	10	100	1000
EBONY KING			
Trans.	\$3.00	\$20.00	\$125.00
No. 1	2.00	15.00	100.00
ELDORADO, select strain			
Trans.	3.00	20.00	125.00
No. 1	2.00	15.00	100.00

Gooseberries

	10	100
Pixwell		
3-yr., heavy	\$4.00	\$35.00
2-yr., No. 1	3.50	30.00
Houghton		
2-yr., No. 1	3.50	30.00

Asparagus

	100	1000
Washington		
3-yr., heavy	\$4.50	\$30.00
2-yr., No. 1	3.00	20.00
1-yr., No. 1	2.50	15.00

Red Rhubarb

	10	100
Canada Red, No. 1 Division	\$3.50	\$30.00
McDonald, No. 1 Division	3.50	30.00

Horseradish

	10	100
Cuttings, 4 to 6 ins.	\$1.00	\$4.50
Whole Roots	1.50	7.50

Victoria Rhubarb

	100	1000
1 1/2 to 2 ins.	\$12.50	.....
1 to 1 1/2 ins.	7.50	\$60.00
3/4 to 1 in.	6.00	45.00
1/2 to 3/4 in.	4.50	30.00

Blueberries

Rancocas, early; Rubel, midseason; Jersey, late

	Each	10	100
2-yr., 9 to 12 ins.	\$0.40	\$3.50	\$32.50
3-yr., 12 to 18 ins.	.55	5.00	47.50
4-yr., 18 to 24 ins., fruit buds	.75	7.00	67.50
5-yr., 24 to 36 ins., fruit buds	1.00	9.00	87.50

250 at 1000 rate.

Prices F.O.B. Bridgman, Mich.

Quantity prices upon request. All stock ready for immediate or future shipment.

Ask for spring wholesale list.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary

304 MITAU BUILDING

SACRAMENTO 14, CALIF.

CENTRAL CHAPTER

The Central chapter of the California Association of Nurserymen held a meeting March 14 at Topps restaurant, East Oakland, Calif.

Gerd Snyder, of the Saratoga Foundation, Saratoga, compared a manufacturer and his ingenuity in bringing new products before the public with the horticultural industry doing the same thing. Nothing new can be created, he said, but the trade can bring in plants to the public from other parts of the world. Nurserymen can also combine the outstanding characteristics of two or more types; start plants from other countries from seeds, such as eucalyptus from Australia; use unusual items grafted onto uniform rootstocks, and train big shrubs into the form of small trees.

Raymond J. Burr, W. B. Clarke & Co., San Jose, displayed about 20 specimens of deciduous magnolias, including stellata, soulangeana and liliflora.

Members and guests also viewed several huge blooms from the famous magnolia in Golden Gate park, San Francisco, which were as large as a dinner plate.

President Bert Wright, Wright Bros. Nursery, Lafayette, requested that all members support the C. A. N. carnival in April by joining with other nurseries in the area.

A new member, Mrs. O'Reiley, Holiday Nursery, Castro Valley, was introduced.

Lloyd T. Reeves, Sec'y.

REDWOOD EMPIRE CHAPTER

Newspaper advertising was the topic of the special speaker, Roy A. Brown, assistant editor and manager, Independent-Journal, San Rafael, on the program for the March 14 meeting of the Redwood Empire chapter of the California Association of Nurserymen at the Mission Inn, San Rafael.

Prior to the address, President Ruth Cullen, Rincon Nursery, Santa Rosa, announced that Harold Prickett was recovering from recent eye surgery at his home at Santa Rosa and welcomed visitors. Also announced was a social hour preceding the chapter's next meeting, at which

past presidents of the chapter would be honored.

Mr. Brown told the group that there is a trend toward the use of newspapers by national advertisers and this move will help to hold or reduce the rates for local advertisers. The retailer can obtain help in his sales efforts by insisting on distributors' participating in the local advertising.

Advertisers will be aided by the display advertising staff of the local newspaper, Mr. Brown added, to obtain the most for their publicity dollars. He recommended that a schedule be worked out for the whole year, without overlooking the

months of low sales. Above all, he continued, let the salespersons know what merchandise is being advertised.

In conclusion, Mr. Brown spoke briefly about a recent market survey of the area served by the Independent-Journal. It revealed a gross income of \$407 million, with an income of \$9,540 per family. Retail outlets had sales of \$181 million, with food sales accounting for \$45 million and automobile sales totaling \$34 million.

Hugh Wallace, Sec'y.

MONTEREY BAY CHAPTER

The Monterey Bay chapter of the California Association of Nurserymen met March 16 at the Franco hotel, Castroville, with 35 members and guests attending. Lowell Sherman, Oki Nursery, Inc., Perkins, was accepted as an affiliate member of the chapter.

The scholarship tickets sold by

PORTLAND WHOLESALE NURSERY CO.

5050 S. E. STARK ST.

Avery H. Steinmetz
Paul E. Van Allen

PORTLAND 15, OREGON

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

Many items still available. Write, wire or PHONE today, BELmont 5-3113.

Write for our Catalog

MITTS PINKS (NEW)

MITTS NURSERY, INC. •

Potted Dianthus, ready to sell. Potted Petunias, blooming. 8c delivered; shipped anywhere in the U. S.

Bedding plants our specialty.

Write for list.

Dianthus Specialists

• Loma Linda, Calif.

DID YOU KNOW?

That there are probably more than 500 species of holly.



SHERWOOD NURSERY CO.

Evergreens - PROPAGATORS AND GROWERS

WHOLESALE

Corbett, Ore.

Bernard Mooney, E. B. Stone & Son, Salinas, brought in \$21, bringing the total to \$199.68, 32 cents short of the chapter goal.

Pressley Neville Jones, C. A. N. group insurance administrator, spoke at length of ways to prevent accidents and promote safety in nurseries. He also discussed the group insurance plan and the health and major medical plan in detail, answering questions from the audience.

President Clay Pleiman, Tempo Landscape & Garden Service, Castroville, appointed John, Peter and Patrick Antonelli, Antonelli Bros., Santa Cruz, in charge of the April meeting, scheduled at the Shadow Brook restaurant. Sue Mell, Sec'y.

SAN DIEGO CHAPTER

March 23 the San Diego chapter of the California Association of Nurserymen held a joint dinner meeting with the San Diego Landscape Contractors' Association at the Rancho Presidio hotel, San Diego, Calif. About 75 members attended. The highlight of the evening's program was the presentation of speakers from the city of San Diego to explain the city's street tree planting program.

Peter Millenaar, chapter president, and Leslie Denham, president of the landscape men's group, presided. The city was represented by Lee Ernest, director of parks and recreation; Lloyd Lowery, superintendent of parks, and Jerry Belleau, street tree superintendent.

The speakers pointed out that the city of San Diego had provided for a major street tree planting program in the 1961 budget. This plan calls for replacing 5,000 trees annually on major streets (18 per cent of the total streets) these trees to be propagated by a city-operated nursery and installed by its workers.

This program will leave the remaining 82 per cent of the streets to be planted by private property owners, nurserymen and landscape men. A master plan of basic street trees is being drafted by the parks and recreation department. The city officials expressed their willingness to meet periodically with the nurserymen, landscape architects and contractors and the county farm adviser to select appropriate trees for specific areas in the city.

This joint meeting helped to clarify many of the issues on this major civic landscaping program for the nurserymen and landscape contractors who attended.

Henry Koide, Sec'y.

The Best Is Always Yet to Come —

and

We Invite Your Inspection of Our



1961-62

"TOPS IN ROSES"

**Wholesale
Listings —**

**The Best
So Far!**

Just off the press—fresh with bright new names; tempered by a generous collection of the ever-popular, old reliables. A happy combination you will want to consider when anticipating your future bare-root rose needs.

Write for your copy early. Make your selections while varieties are complete and shipping schedules are intact.



**WEEKS WHOLESALE
ROSE GROWER**

O. L. WEEKS

926 W. Philadelphia

Ontario, Calif.



MAHONIA AQUIFOLIUM

(Oregon-Washington Holly Grape)

A very beautiful evergreen shrub with large, glossy leaves and yellow flowers conspicuously appearing in spring and followed by dark blue berries; a most satisfactory broad-leaved evergreen for any place in the United States.

	Per 100	Per 1000
1-yr., S.	\$ 5.00	\$ 40.00
2-yr., S.	7.00	60.00
3-yr., S.	10.00	90.00

SEEDLINGS have been root-pruned to insure a good root system. The 3-yr. seedlings have also been cut back, to make a more bushy, compact plant.

TERMS: Check is requested before shipment or will ship C.O.D., if preferred. All orders shipped by railway express unless otherwise stated.

**Place Your Order Now for
Spring, 1961, Delivery**

Chenoweth's

MOUNT VERNON NURSERY

Mount Vernon, Wash.

(ALL ORDERS SHIPPED SAME
DAY THEY ARE DUG)

DOERFLER SPECIALTIES

SHEARED

BOXWOOD

Many nurserymen tell us we
have the best

SHEARED

GLOBE AND PYRAMID BUXUS SEMPERVIRENS

in the United States.

Also Dwarf Suffruticosa and general nursery stock, including large shade and flowering trees.

We have shipped in carlots to many parts of the United States for years.

F. A. DOERFLER & SON, INC.
250 Lancaster Dr., N. E.
Salem, Ore.

SHADE and FLOWERING TREES

Broad-Leaved and Coniferous
Evergreens
B&B or Container-Grown
Write for list.

TILLSTROM NURSERY

R. F. D. 3, Box 870 Gresham, Ore.

DOTY & DOERNER, Inc.

6691 S. W. CAPITOL HIGHWAY
PORTLAND I, OREGON

WHOLESALE

GENERAL NURSERY STOCK

OREGON NOTES

According to word received from Mrs. Roberta Brown, Wichita Nursery, Milwaukie, secretary of the Clackamas chapter of the Oregon Association of Nurserymen, plans have been completed for the joint meeting of the Sunset, Rose City, Columbia River and Clackamas chapters at 7 p. m. April 18 at the West Linn Inn, West Linn. The Clackamas chapter will host the meeting, assisted by the Sunset chapter. President Erwin Fowler of the O. A. N., Milton Nursery, Milton-Freewater, will address the group. The A. A. N. film on the management conference will be shown.

In June an all-chapter tour of the north Willamette valley experiment station, originally proposed by the Clackamas chapter, is planned. A July tour of various nurseries and an August picnic are also scheduled by the Clackamas group.

The Southern Oregon Rogue Valley Nurserymen and Growers Association recently elected Mel Nipps, Nipps Greenhouse, Grants Pass, president and Dale Neidermyer, Crater Greenhouse, Medford, secretary-treasurer.

According to the results of three years' research at Oregon State College, the black cherry aphid can be controlled effectively by spraying with demeton (Systox) 26.2 per cent at the rate of one pint to 100 gallons of spray, applied when cherry trees are in the preblossom or petal-fall stages. The aphid by this time have hatched and little if any foliage is curled. Demeton is a systemic insecticide and is absorbed by the foliage on which the aphid feed.

Stephen C. Marks, Oregon State College, Corvallis, recently released figures which stated that Oregon now grows more apple, pear and sweet cherry trees than it did five years ago, but fewer plum, prune and peach trees and only half as many apricot trees.

Century Forest Seed, Inc., Route 1, Box 39, Lebanon, recently started doing business. Purchasing, processing and marketing conifer seeds will be the major operations of the firm, which will also handle fertilizers, mulching materials and other supplies, according to Donald R. Tucker, president.

Scotty's Garden Supply, Portland, recently erected a new building for handling fertilizers.

Miss Sharon Miller, daughter of Mr. and Mrs. Harold L. Miller, Miller Landscape Nursery, Milwaukie, and Gerald Stutzman, Milwaukie, were united in marriage in a

A. MCGILL & SON

FAIRVIEW, ORE.

Wholesale only

**FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
SHADE TREES**

Licensed Growers of

Crimson King Maple (Pat. No. 735)
Morraine Locust (Pat. No. 836)
Shademaster Locust (Pat. No. 1515)
Skyline Locust (Pat. No. 1619)
Sunburst Locust (Pat. No. 1313)

**Constant Vigilance Results
in Quality Stock**

Combination carloads to eastern
distributing points.
Write for our list.

LINING-OUT STOCKS

Alberta Spruce, Juniper, Cypress, Arborvitae, Yew R. C., 10c each — T., 15c each.

BROAD-LEAVED EVERGREENS: Camellias, R. C. 25c each; Daphne, Andromeda, Abelia, R. C., 10c each; Azaleas, complete list, R. C., 5c each, T., 10c each.

Good assortment of evergreens, fruit, shade and flowering trees. Write for special list.

BENEDICT NURSERY CO.

Since 1890

735 N. E. 87th Ave. Portland, Ore.

OREGON HOLLIES

Skimmia japonica
General Nursery Stock
May we quote you?

ALFRED TEUFEL

Wholesale Grower
11414 N.W. Cornell Rd.
Portland, Ore.

CUTTING-GROWN RHODODENDRON LINERS

Hardy and semihardy varieties.

Quality only

VAN VEEN NURSERY

3127 S. E. 43rd Ave.
PORTLAND 6, ORE.

RHODODENDRON AND EVERGREEN LINERS

In Season

J. B. WHALLEY NURSERY
Rt. 2, Box 683 TROUTDALE, ORE.

EUROPEAN WHITE BIRCH

	Per 10	Per 100
14 to 16 ft.	\$42.50	.....
12 to 14 ft.	35.00	\$325.00
10 to 12 ft.	27.50	250.00
8 to 10 ft.	22.50	200.00
6 to 8 ft.	16.50	150.00
5 to 6 ft.	12.00	110.00

SANDY NURSERY

Rt. 1, Box 1162 Sandy, Ore.

ROSES

Top-quality, field-grown patented and standard roses.

Write for list and prices.

JOHN CARRIG & SONS
Jefferson, Ore.

MILTON NURSERY CO.

Since 1878

MILTON-FREEWATER, ORE.

Flowering, Ornamental, Shade
Trees and Shrubs, Fruit Trees,
Fruit Tree Seedlings and Angers
Quince Rooted Cuttings.

Licensed Growers of

Crimson King Maple (Pat. No. 735)

Imperial Locust (Pat. No. 1605)

Moraine Ash (Pat. No. 1768)

Moraine Locust (Pat. No. 836)

Shademaster Locust (Pat. No. 1515)

Sunburst Locust (Pat. No. 1313)

Send for Our Price List

Combination carlots for eastern
distributing points.

ROSES**OLD and NEW**

Fine-quality, two-year plants
budded on Multiflora in over
250 varieties.

Write for our list explaining
our new freight-saving plan.

**MT. HOOD NURSERY**

Rt. 2, Box 96
GRESHAM, ORE.

QUALITY LINERS

Write for our catalog listing
over 500 varieties.

MITSCH NURSERY

Aurora, Ore.

ROSES

Top-quality, northern California, field-
grown, patented and standard bush and
tree roses. Write for list and prices.

ELMER ROSES CO.

4278 Riverside Dr.
Chino, Calif.

**ORNAMENTAL WOODY PLANTS
AND ROSES**

Write for our lists.

W. B. CLARKE & CO.

P. O. Box 343 SAN JOSE, CALIF.

ORNAMENTAL CRAB APPLES,

by A. F. den Boer. 226 p., illus. (1959). \$4.95.
American Nurseryman Chicago 4, Ill.

late afternoon ceremony February
25. C. H. P.

L. A. AIRPORT PLANTING

Months of planning and financ-
ing undertaken by dedicated citi-
zens, fraternal organizations, mer-
chants and manufacturers culminat-
ed in the planting of the first orna-
mental street tree in the Westchester
section of Los Angeles, heretofore a
"modernly barren" commercial and
residential community surrounding
Los Angeles International airport.
As the magnificent new airport
comes into being, the major ap-
proaches to it will be beautifully
decorated with *Ficus nitida* and
showy red bottle-brush trees.
Though guided and assisted by the
street tree department and other
large Los Angeles organizations, the
entire project was inspired, under-
written and carried out as a West-
chester community project.

ARBOR DAY PROMOTION

Arbor day this year in California
was more widely recognized by the
public than in other years. The gov-
ernor's proclamation made more per-
sons aware of the fact that Arbor
day in California is always March 7.
The California Association of Arbor-
ists and the California Association of
Nurserymen, working independently
of each other, promoted the desira-
bility of planting and caring for
trees. The arborists used the news-
papers, and the nurserymen had
printed material which most mem-
bers displayed prominently at their
places of business. Most nurserymen
report that tree planting was in-
creased and many who had not been
aware of Arbor day came in to ask
about it. Arbor days should have
more activities in succeeding years,
providing both industry groups fol-
low through with greater publicity.
W. B. B.

TRAILER PARK PLANNER

Julius J. Veyna, a landscape archi-
tecture student at California State
Polytechnic College, San Dimas, was
awarded \$100 for fourth place prize
in a nation-wide mobile home park
design contest sponsored by the Mo-
bile Homes Research Foundation,
Chicago, Ill., and Rogers Industries,
Inc., Detroit, Mich.

More than 200 students studying
landscape architecture, architecture
and city planning competed in the
contest, which was endorsed by the
American Society of Landscape Ar-
chitects.

QUALITY NURSERY STOCK**ACER PLATANOIDES**

Fausen's Red-Leaved		
Maple	Per 10	Per 100
6 to 8 ft., br.....	\$35.00	\$325.00
5 to 6 ft., br.....	25.00	225.00
8 to 9 ft., whips...	30.00	225.00
7 to 8 ft., whips...	25.00	210.00
6 to 7 ft., whips...	21.00	180.00
5 to 6 ft., whips...	16.00	140.00
4 to 5 ft., whips...	13.00	110.00
3 to 4 ft., whips...	10.00	85.00

Norway Maple

12 to 14 ft., br....	35.00	325.00
10 to 12 ft., br....	30.00	275.00
8 to 10 ft., br....	25.00	225.00
6 to 8 ft., br....	20.50	190.00
5 to 6 ft., br....	15.00	135.00
8 to 9 ft., whips...	10.50	100.00
7 to 8 ft., whips...	10.00	85.00
6 to 7 ft., whips...	9.50	90.00
5 to 6 ft., whips...	8.00	75.00
4 to 5 ft., whips...	6.00	55.00

Columnar Norway Maple

3-yr., 11 to 12 ft..	33.50	310.00
3-yr., 10 to 11 ft..	30.00	275.00
2-yr., 9 to 10 ft..	27.50	250.00
2-yr., 8 to 9 ft..	25.00	225.00
2-yr., 7 to 8 ft..	22.00	195.00
2-yr., 6 to 7 ft..	18.50	170.00
1-yr., 5 to 6 ft..	15.50	140.00
1-yr., 4 to 5 ft..	12.00	110.00
1-yr., 3 to 4 ft..	10.00	90.00

**Drummond Norway
Variegated Maple**

6 to 8 ft., br.....	28.50	260.00
5 to 6 ft., br.....	23.50	210.00
8 to 9 ft., whips...	21.00	185.00
7 to 8 ft., whips...	20.00	175.00
6 to 7 ft., whips...	18.00	165.00
5 to 6 ft., whips...	14.50	130.00
4 to 5 ft., whips...	10.00	90.00

ACER PSEUDOPLATANUS

Improved Spaethi		
12 to 14 ft., br....	37.50	350.00
10 to 12 ft., br....	32.50	300.00
8 to 10 ft., br....	27.50	250.00
6 to 8 ft., br....	22.50	200.00
5 to 6 ft., br....	16.50	150.00
6 to 7 ft., whips...	12.50	115.00
5 to 6 ft., whips...	10.00	90.00
4 to 5 ft., whips...	8.00	70.00

**ACER RUBRUM
(Red Maple)**

10 to 12 ft., br....	32.50	300.00
8 to 10 ft., br....	27.50	250.00
6 to 8 ft., br....	22.50	200.00
5 to 6 ft., br....	16.50	150.00
4 to 5 ft., br....	12.50	115.00

**ACER SACCHARUM
MONUMENTALE**

(Columnar Sugar Maple)		
8 to 10 ft., br....	27.50	250.00
7 to 8 ft., whips...	25.00	225.00
6 to 7 ft., whips...	22.50	200.00
5 to 6 ft., whips...	20.00	175.00
4 to 5 ft., whips...	17.50	150.00
3 to 4 ft., whips...	15.00	125.00

BETULA ALBA

(European White Birch)		
12 to 14 ft., br....	35.00	325.00
10 to 12 ft., br....	27.50	250.00
8 to 10 ft., br....	22.50	200.00
6 to 8 ft., br....	16.50	150.00
5 to 6 ft., br....	12.00	110.00
4 to 5 ft., br....	9.00	85.00
3 to 4 ft., br....	6.50	60.00

**FRAXINUS QUADRANGULATA
(Blue Ash)**

10 to 12 ft., br....	37.50	350.00
8 to 10 ft., br....	32.50	300.00
6 to 8 ft., br....	27.50	250.00
5 to 6 ft., br....	22.50	200.00
6 to 7 ft., whips...	18.00	165.00
5 to 6 ft., whips...	15.00	135.00
4 to 5 ft., whips...	12.00	105.00

Quantity Prices and Catalog
Upon Request

**POWELL VALLEY NURSERY**

210 S. E. Vista Ave.
Gresham, Ore.
Phone: MOhawk 5-3537

CLASSIFIED ADS

Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the May 1 issue must be received by Friday, April 14.

Forms for May 15 issue will close Friday, April 28.

AZALEAS

AZALEA LINERS
Heavy, well-shaped 1-yr. transplants, available now.
DWARF AND SEMI-DWARF VARIETIES
Christmas Cheer Massasoit
Coral Bells Pink Pearl
Hexe Pink Ruffle
Hinodegirl Rose Pericat
Hino-Crimson Salmon Beauty
Lentensroot Snow
Macrantha Sweet Briar

Sweetheart Supreme
\$12.50 per 100, \$110.00 per 1000,
\$1000.00 per 10,000.

INDICA VARIETIES
Daphne Salmon Judge Solomon
Elegans King's White
Fischer Pink Mrs. G. G. Gerbing
Formosa President Clay
George L. Taber Pride of Mobile

Southern Charm
\$12.50 per 100, \$110.00 per 1000,
\$1000.00 per 10,000.

FLOWERWOOD NURSERY, INC.
R. 1, Box 130 Mobile, Ala.

SATISFACTION GUARANTEED
DELIVERY FROM APRIL 1
Sheared, well-branched plants with healthy root systems and tops. From fumigated beds.

KURUME VARIETIES
CHRISTMAS CHEER PINK PEARL
CORAL BELLS SALMON BEAUTY
FASHION SHERWOOD RED
HEXE SNOW
HINO-CRIMSON SWEETHEART
HINODEGIRI SUPREME

Per 100 Per 1000
4 to 6 ins., from cold frames \$15.00 \$125.00

INDICA VARIETIES
FISCHER'S PINK MRS. G. G. GERBING
FORMOSA PRES. CLAY
GEO. L. TABER PRIDE OF MOBILE
JUDGE SOLOMON SALMON, LAWSAL
6 to 8 ins., from cold frames \$15.00 \$125.00
COTTAGE HILL NURSERY, LTD.
4003 Japonica Lane Mobile, Ala.

BECKY AZALEA
U. S. pat. No. 1699.
ROOTED CUTTINGS (minimum 100).
100 500 1000

Each25c 20c 18c
TRANSPLANTS (minimum 50).
8 to 10 breaks35c each
12 to 15 breaks45c each
(No shipments after May 10, 1961.)

DORMANT PLANTS
(For shipment September 1961.)
Each, in lots of 100 250 500 1000
4 to 6 ins.\$0.70 \$0.65 \$0.63 \$0.60
6 to 8 ins.1.20 1.10 1.00 .90
8 to 10 ins.1.45 1.35 1.25 1.15
Prices are F.O.B. Seacane and include patent label for each plant purchased.
VOSTERS NURSERIES & GHSES., INC.,
Seacane, Pa.

AZALEAS, TRANSPLANTS
Hinodegirl Sherwood Orchid
Hino-Crimson Sherwood Red
Coral Bells Flame
Campfire Amoena
Snow Montrose
Glacier Mrs. Pickering
Stewartstonlan Red Progress
Corsage Sun Star
Salmon Beauty Boudoir
Leditfolia alba Bond Street
Mayfair

\$14.00 per 100, \$125.00 per 1000.
No shipping charge. Also field-grown, budded Azaleas.

WIGMORE'S NURSERIES
Norman Ave., Riverside Pk., Riverside, N. J.
Phone BElmont 5-2210

AZALEAS

Transplants, \$15.00 per 100.
6 to 8 ins., field-grown, \$60.00 per 100.
Pickup only.

DREAHOOK AZALEA FARM
Branchburg, N. J.
Mail Address: R. D. 4, Somerville, N. J.
Phone RA 5-5328

Surplus Stock
can be easily and quickly turned into
Cash
by listing it in the
American Nurseryman Classified Ads.

AZALEAS

A million extra nice, well-branched, kurume and indica liners, grown in solid peat, ready for immediate shipment.

Christmas Cheer Hinodegirl
Coral Bells Rosebud
Hampton Beauty Salmon Beauty
Hexe Sweetheart

INDICA VARIETIES
Formosa Pride of Mobile
King's White Pride of Dorking
Mrs. G. G. Gerbing Southern Charm
\$15.00 per 100, \$120.00 per 1000.

CASADABAN'S NURSERIES
Abita Springs, La.

AZALEA LINERS
A fine batch of transplanted and trimmed plants in flats. Bushy. Only the new and better sub-zero varieties.
\$25.00 per 100.
Packing free, cash with orders.

WELLS NURSERY
Box 141 Red Bank, N. J.

CONTAINER-GROWN GLENN DALE AZALEAS

4-yr.-old plants, bloom buds, in 6 colors, \$1.15 each, in lots of 50 or more.

TILLMAN NURSERY
Ind. Highway 662 Newburgh, Ind.
Phone UL 3-8649

AZALEAS, ROOTED CUTTINGS
\$7.00 per 100. Coral Bella, ledifolia alba; Othello, Sherwood, Lavender, Pink Pearl, hinodegirl, Mrs. Fischer, pink; Macrantha, Snow. Price list of Azaleas, Heathers, perennials, on request.
AVALLON MOUNTAIN GARDENS, Dana, N.C.

AZALEA HINODEGIRI, FIELD-GROWN
15 to 18 ins., B&B,
\$1.25 each, in lots of 50 or more.
TILLMAN NURSERY
Ind. Highway 662 Newburgh, Ind.
Phone UL 3-8649

SEEDS, SEEDLINGS AND TRANSPLANTS
Hybrids and species in \$1.00 packets, flats and peat pots. Free packing. Ask for list.

JOHN VERMEULEN & SON, INC.
P. O. Box 336A Neshaun Station, N. J.

HINO-CRIMSON, KAEMPFER HYBRIDS
Some Azaleas still left. Good bloom buds, due to flower third week in April.
THE TANKARD NURSERIES
Exmore, Virginia

AZALEAS
For forcing and landscape planting.
Write for our trade list.

THE LEVICK NURSERY CO.
R. F. D. 3 Bridgeton, N. J.

AZALEAS FOR LANDSCAPING
8 to 36 ins., field-grown. All colors.
Write for trade list.
E. A. JONES & SONS
Phone LI 2-0044 Oceanport, N. J.

Turn Stock into Dollars
by Listing It in the Classified Ads
of the American Nurseryman.

BEGONIAS

TUBEROUS-ROOTED BEGONIAS
Large double (Camellia-flowering), 8 colors.

EXHIBITION size, 2½-in. up \$18.00 \$160.00
2 to 2½-in.15.00 140.00
1½ to 2-in.10.00 90.00
1¼ to 1½-in.6.50 55.00

DOUBLE FIMBRIATA (Carnation), 6 colors.

DOUBLE Camellia, red with white edge.
DOUBLE Marmorata, red, spotted white.

TOP size\$16.00 \$150.00
FIRST size12.00 110.00
SECOND size7.00 60.00

BICOLOR, yellow mixed with copper and white.

PENDULA (hanging basket type), 6 colors.

TOP size\$19.00 \$180.00
FIRST size14.00 130.00
SECOND size8.50 75.00

MULTIFLORAS, scarlet, yellow, apricot, copper, 1 to 2-in.\$12.00 \$110.00

MULTIFLORA MAXIMA (NEW), 6 colors, 1 to 2-in.\$13.00 \$120.00

PICATA, CRISTATA and MARGINATA, 1¼ to 2-in.\$13.00 \$120.00

Minimum order \$10.00.
VERONA GARDENS, TED GREVERS
Route 5 Battle Creek, Mich.

TUBEROUS BEGONIAS

Imported from Belgium.
Double Camellia, 8 separate colors, or mixed.
COPPER, CRIMSON, PINK, ORANGE,
SCARLET, SALMON, WHITE, YELLOW.

Per 100 Per 1000
1¼ to 1½-in.\$ 6.50 \$ 55.00
1½ to 2-in.10.00 90.00
2 to 2½-in.15.00 140.00

FIMBRIATA, Carnation-flowered, 7 above colors, no salmon.

1½ to 2-in.\$11.50 \$105.00
2 to 2½-in.16.50 150.00

PENDULA, Hanging Basket, 7 above colors, no copper.

1½ to 2-in.\$12.50 \$115.00
2 to 2½-in.17.50 160.00

250 at the 1000 rate; 50 at the 100 rate. Smaller lots, add 10 per cent. Please include postage if wanted by mail.

THE FLOWER FARM
1209 Luehm Ave. E. McKeesport 9, Pa.

BERRY PLANTS

RED RASPBERRIES

Gatineau, Earlired (very early); Latham, Muskoka, Canby, Thames and New Hampshire (mid-season); Durham and September Everbearing, up to 3/16-in., \$65.00 per 1000; over 3/16-in., \$75.00 per 1000. Bailey Blackberry, \$12.00 per 100.

Above sent F.O.B. shipping point.
Pack-out prices on request.

Write for free catalog and wholesale price list describing over 70 varieties of small fruit plants, latest and best in Strawberry plants.

WALTER K. MORIS & SON
Bradford, Mass.

BLUEBERRY PLANTS

Bed-grown in the best type of Blueberry soil. Many sizes in both new and standard varieties. Ask for wholesale prices.

See our display ad on page 87.
KRIEGER'S WHOLESALE NURSERY
Bridgman, Mich.

BLUEBERRIES 10 100
2-yr., 12 to 18 ins.\$5.50 \$45.00
4-yr., 18 to 24 ins.7.00 60.00

Atlantic, Burlington, Jersey, Stanley, Weymouth.

WAYNESBORO NURSERIES
Waynesboro, Va.

BLACKBERRY PLANTS

EBONY KING and select strain **ELDORADO**, true-to-name, no non-fruitle plants. Ask for wholesale trade list.

See our display ad on page 87.
KRIEGER'S WHOLESALE NURSERY
Bridgman, Mich.

BULBS AND TUBERS

TUBEROUS BEGONIAS

Double-flowered CAMELLIA type, 8 colors.
Per 100 Per 1000

1¼ to 1½-in.\$ 6.50 \$ 55.00
1½ to 2-in.10.00 90.00
2 to 2½-in.15.00 135.00

Double-flowered FIMBRIATA (Carnation), 6 colors.

1¼ to 1½-in.\$ 7.50 \$ 65.00
1½ to 2-in.13.50 125.00
2-in. up16.50 145.00

PENDULA (hanging basket type), 6 colors

1¼ to 1½-in.\$ 8.00 \$ 70.00
1½ to 2-in.13.50 125.00
2-in. up17.50 165.00

PICOTEE, bicolor red and white double flowered.

1½ to 2-in.\$13.50 \$125.00

MULTIFLORA HYBRIDS, reds, salmon, yellows.

MULTIFLORA MAXIMA (new), 6 colors.

1-in. up\$13.50 \$125.00
Minimum order \$10.00.

FANCY-LEAVED CALADIUMS

Over 100 of the finest new commercial named varieties in regular and lance-leaved type. Send for our colored charts with cultural directions.

No. 3, ¾ to 1-in.\$ 6.00 \$ 60.00
No. 2, 1 to 1½-in.10.00 90.00
No. 1, 1½ to 2½-in.16.00 150.00

Jumbo, 2½ to 3½-in.23.00 220.00
Mammoth, 3½-in. up35.00 325.00

Minimum order \$10.00.

Include postage charges when requesting shipments by parcel post.

LOUIS DANK
1170 Broadway New York 1, N. Y.

TUBEROUS BEGONIAS

Belgium-grown, clean healthy tubers.
Double flowering Camellia type. Choice 8 colors.
1 1/4 to 1 1/2-in., 80, 10 each color. \$8.00 postpaid
1 1/2 to 2-in., 80, 10 each color. 10.00 postpaid
2-in. up, 80, 10 each color. 13.50 postpaid
Pendula (hanging basket type), 6 colors, or marginata.

1 1/4 to 2-in., 60, 10 each color. \$10.00
2-in. up, 60, 10 each color. 12.50
Lots of 240 or more, discount 10 per cent.
VAN ENGEL'S NURSERY
206 Richard Ave. Kalamazoo 33, Mich.

DAHLIA ROOT BARGAIN OFFER TO YOU
100 large flowering, individually packaged tubers, FOR ONLY \$18.98.

10 Commando, violet; 10 Dorothy Tooker, white; 10 Commodore, yellow; 10 Golden Treasure, gold; 10 Rose Fallon, golden; 10 D-Day, pink; 10 Avalon, yellow; 20 Rose Glory, rose; 10 Boutillier, red.
BULK tubers of above, packed in 10 separate bags, FOR ONLY \$15.98.

MERLE PAYNE GARDENS
2814 S. 42 St. Kansas City 6, Kan.

MICHIGAN-GROWN GLADIOLI
We would like to have you try our bulbs. These mixtures contain many good colors.
Per 1000 Gladioli bulbs Nos. 1 2 3
Giant EXHIBITION MIXTURE, \$25 \$20 \$15
Fancy BLENDED MIXTURE, \$20 \$24 \$19
Net cash with order. F.O.B. Dowagiac.
GEO. W. HUNTER, Grower
Route 3 Our 44th year. Dowagiac, Mich.

Cannas, 2 to 5-eye divisions, grown on sandy, irrigated and fertilized land: Red King Humbert, Yellow King Humbert, City of Portland, pink, \$5.00 per 100, \$45.00 per 1000. The President, red, \$6.00 per 100, \$55.00 per 1000. Cash or check with order, please. Ray's Feed, Seed and Nursery, Box 1305, Levelland, Tex.

CANNA THE PRESIDENT
The best dwarf red.
Plump, healthy, 3 to 5-eye divisions.
Per 100, \$7.00.
Per 1000, \$60.00.
QUALITY GLADIOLUS GARDENS
Highway 1, South, R. F. D. 3
Jonesboro, Ark.

Dahlias, exhibition varieties: Orfeo, P. of H. and Bronze I. C.; Jersey Beauty, D-Day, Huge Bronze, Orchid, Red, Gold F. D., 100, \$15.00; 1000, \$120.00. Rainbow Mix, 100, \$12.00; 1000, \$100.00. Write for No. 2 planting stock offer. Adams Flower Gardens, New Martinsville, W. Va.

HOLLAND AND DOMESTIC BULBS
FOR SPRING AND FALL
Write for wholesale price list.
DeGROOT BULB CO.
12-02 Ellis Ave. Fair Lawn, N. J.

Cannas, northern-grown: The President, Red and Yel. Humbert, Mme. Crozy, Hungaria, R. Wallace. Bulbs, 150, \$10.00; 1000, \$60.00, f.o.b. Adams Flower Gardens, New Martinsville, W. Va.

BUXUS

Buxus sempervirens (Boxwood), 8 to 10 ins., 2-yr., \$9.00 per 100, \$85.00 per 1000; 1-yr. plants, 12 to 14 ins., \$10.00 per 100, \$90.00 per 1000.
Spring Acres Nursery, Morris, Ga.

CHRYSANTHEMUMS

HARDY GARDEN CHRYSANTHEMUMS
Field divisions.
CUT AND DECORATIVE
Chris Columbus, large white
Delight, large golden yellow
Red Velvet, dark velvet red
Pink Opal, 4-in. peach-pink
Bonfire, bronze Pompon
Royal Robe, large purple
Pathfinder, Carnation-flowered yellow.

LOW-GROWING CUSHIONS
Grace, white cushion
Lomona, deep yellow Pompon
Santa Claus, bright red cushion
Orchid Helen, double orchid-pink
Orange Cushion, orange-bronze
Purple Cushion, purple
Cutie, cherry-red Button
Fuchsia Fairy, reddish pink

Our divisions are selected from the most vigorous plants grown in the field. These plants have been wintered over, are well-rooted and have been hand trimmed. Ready for field planting.

In shipment, the roots of the plants are protected with sphagnum moss and the tops with excelsior. Each variety is carefully labeled.

PRICES
Per 100 \$ 5.00
Per 500 22.50
Per 1000 40.00
Per 1000, for 10,000 or more. 35.00
W. S. YOE NURSERIES
Madison, O.

HARDY CHRYSANTHEMUMS
Rooted cuttings. Send for spring list.
SUNBURY GREENHOUSES
Warner Breece Sunbury, O.

TESTED HARDY GARDEN MUMS

Top-notch varieties selected from 4 years of field trials. Strong, well-rooted cuttings of both new and older varieties, 8c each per 10; 7c each per 25; 6c each per 50; 5 1/2c each per 100; 5c each per 1000. Send for list.
HOUSE OF WESLEY NURSERY DIVISION
R. R. 1 Bloomington, Ill.

HARDY GARDEN MUMS

Strong rooted cuttings, \$6.00 per 100, \$55.00 per 1000. Send for list of 150 good varieties.

THON'S PERENNIAL GARDENS
25 W. Golf Rd. Arlington Heights, Ill.
Dept. A Phone HE 7-3184

HUSKY GARDEN ROOTED CUTTINGS

Cream of the crop.
Originating from ALL the breeders.
With sales magic and strong roots.
Most profitable LIST in the trade.
FARM OF PASCHKE, NORTH EAST, PA.

CLEMATIS

CLEMATIS
From our collection of over 100 varieties. True to name. Well-grown in 3-in. pots on 18-in. stakes. Immediate delivery.
\$65.00 per 100. Minimum 25 plants. 5 plants per variety.
Jackman, popular purple
The President, large plum-purple
Lady Betty Balfour, deep navy-blue
Ernest Markham, bright cerise-red
Veillard, lilac-rose
Gypsy Queen, dark velvety purple
Crimson Star, large crimson-red
Ville de Lyon, carmine-red
Nelly Moser, mauve-pink, red bars
Ramona, large light blue
Varieties subject to prior sale.
WALLIE'S GARDENS
Box 561 Rochester, Minn.

CLEMATIS VINES
Large flowering, from 4-in. pots.
Blooming size, 1-yr. frame, 85c each.

Gypsy Queen, purple
Lanuginosa candida, white
Ernest Markham, red
Lawsoniana, sky-blue
Ville de Lyon, red
Plants shipped bare-root.
Cash with order.

FOUR STAR NURSERY
8215 238th S. W. Edmonds, Wash.

CLEMATIS VINES
QUALITY LARGE-FLOWERING HYBRIDS
20 OUTSTANDING VARIETIES
AVAILABLE

FOR SPRING AND FALL SHIPMENTS
FROM 4-IN., 3-IN., 2 1/2-IN. POTS
GREENHOUSE-GROWN
STERILIZED PRODUCTION
WRITE FOR COMPLETE LIST
ARTHUR H. STEFFEN, INC.
1253 Fairport Rd., Box 84 Fairport, N. Y.

DELPHINIUMS

2 1/2-IN. GIANT PACIFIC DELPHINIUMS
Aetolat, Galahad, Blue Bird, Summer Skies, Black Knight, King Arthur. Shipped in 2 1/2-in. Tekpots, ready to plant or retail. 50 plants, \$5.50; 100, \$10.00; 500, \$47.50; 1000, \$90.00.
SCHMIDT GREENHOUSES, HARVARD, ILL.

DOGWOODS

RED AND WHITE FLOWERING DOGWOOD
Extra large, with flower buds.

RED DOGWOOD
4 to 5 ft., \$3.00 each; 5 to 6 ft., \$4.50.
WHITE DOGWOOD
4 to 5 ft., \$1.50 each; 5 to 6 ft., \$2.00.
50c extra for B&B.

WORLEY'S NURSERIES
R. 1 York Springs, Pa.

EUONYMUS

EUONYMUS LINERS
ROOTED CUTTINGS from open frame.
Per 100 Per 1000
E. fortunei coloratus \$6.50 \$45.00
E. patens 6.50 45.00
E. patens, small leaf 6.50 45.00
FOX NURSERY, HUMANSVILLE, MO.

EVERGREENS, Liners

POTTED FIELD LINERS
Per 100 Per 1000

Taxus capitata
2-yr. seedlings, 4 to 6 ins. \$ 8.00 \$ 75.00
3-yr. seedlings, 8 to 12 ins. 12.00 100.00
T. 10 to 15 ins. 35.00 300.00
Special discount on large quantities.

Taxus media Adams
2-yr., 2 1/2-in. Rose pots, 8 to 12 ins. \$24.00 \$220.00
4-yr., TT, field, 12 to 18 ins. 40.00 350.00

Taxus media andersoni
2-yr., 2 1/2-in. Rose pots, 8 to 12 ins. 25.00 225.00
3-yr., TT, field, 6 to 12 ins. 35.00 300.00
5-yr., TT, field, 12 to 18 ins. 75.00 650.00
(Continued in next column)

(Continued from previous column)

Taxus media browni
2-yr., 2 1/2-in. Rose pots, 8 to 12 ins. 25.00 220.00
3-yr., TT, field, 8 to 12 ins. 40.00 350.00
4-yr., TT, field, 12 to 15 ins. 50.00 450.00

Taxus capitata (seedling-grown)
4-yr., 2 1/2-in. Rose pots, 8 to 12 ins. 25.00 220.00
4-yr., T, field, 10 to 12 ins. 35.00 300.00
5-yr., TT, field, 12 to 15 ins. 50.00 450.00

Taxus media clifforti
2-yr., 2 1/2-in. Rose pots, 8 to 12 ins. 25.00 220.00
3-yr., TT, field, 8 to 12 ins. 40.00 350.00

Taxus cuspidata
2-yr., 2 1/2-in. Rose pots, 6 to 12 ins. 24.00 220.00
3-yr., TT, field, 8 to 12 ins. 35.00 300.00
4-yr., TT, field, 12 to 15 ins. 45.00 400.00
5-yr., TT, field, 12 to 15 ins. 65.00 500.00

Taxus cuspidata improved
2-yr., 2 1/2-in. Rose pots, 6 to 12 ins. 25.00 220.00

Taxus cuspidata densiformis
2-yr., 2 1/2-in. Rose pots, 6 to 12 ins. 27.50 250.00

Taxus media Halloran
3-yr., TT, field, 8 to 12 ins. 35.00 300.00

Taxus media hatfieldi
3-yr., TT, field, 8 to 12 ins. 35.00 300.00

Taxus media hatfieldi No. 13
2-yr., 2 1/2-in. Rose pots, 6 to 12 ins. 25.00 220.00
3-yr., TT, field, 8 to 12 ins. 35.00 300.00
4-yr., TT, field, 12 to 15 ins. 50.00 450.00
5-yr., TT, field, 12 to 15 ins. 75.00 650.00

Taxus media heasleyi
2-yr., 2 1/2-in. Rose pots, 8 to 12 ins. 27.50 250.00
3-yr., TT, field, 8 to 12 ins. 37.50 350.00

Taxus media hicksii
2-yr., 2 1/2-in. Rose pots, 6 to 12 ins. 25.00 220.00
3-yr., TT, field, 8 to 12 ins. 35.00 300.00
4-yr., TT, field, 12 to 15 ins. 50.00 450.00
5-yr., TT, field, 12 to 18 ins. 75.00 650.00

Taxus intermedia (Sebian strain)
2-yr., 2 1/2-in. Rose pots, 6 to 12 ins. 27.50 250.00
3-yr., TT, field, 6 to 12 ins. 40.00 350.00

Taxus media Moon's
2-yr., 2 1/2-in. Rose pots, 6 to 12 ins. 25.00 220.00

Taxus cusp. vermiculata
2-yr., 2 1/2-in. Rose pots, 6 to 12 ins. 25.00 220.00
3-yr., TT, field, 8 to 12 ins. 35.00 300.00

Taxus media wymani
3-yr., TT, field, 6 to 12 ins. 35.00 300.00

Juniper, Andorra compacta
2-yr., TT, field, 6 to 12 ins. 30.00 275.00
3-yr., TT, field, 8 to 12 ins. 40.00

Juniperus glauca hetzi
1-yr., 2 1/2-in. Rose pots, 4 to 6 ins. 18.00 175.00
2-yr., 2 1/2-in. Rose pots, 6 to 8 ins. 25.00 220.00
3-yr., TT, field, 8 to 12 ins. 30.00 275.00

3-yr., TT, cut backs, 8 to 12 ins. 35.00 300.00
4-yr., TT, cut backs, 12 to 15 ins. 50.00 450.00

Juniperus chinensis nelsoni
2-yr., TT, field, 6 to 8 ins. 28.00 250.00
3-yr., TT, field, 8 to 12 ins. 35.00 300.00

4-yr., TT, field, cut backs, 12 to 15 ins. 50.00 450.00

Juniperus chinensis pfitzeriana
1-yr., 2 1/2-in. Rose pots, 4 to 6 ins. 20.00 180.00
3-yr., TT, field, 12 to 15 ins. 35.00 300.00
4-yr., TT, field, cut backs, 12 to 18 ins. 45.00 400.00

5-yr., TT, field, cut backs, 12 to 18 ins. 65.00 500.00

Thuja occ. American
4-yr., TT, field, cut backs, 24 to 30 ins. 75.00 650.00

Thuja occ. elegantissima
3-yr., TT, field, 12 to 15 ins. 35.00 300.00

Thuja occ. Hetz's Wintergreen
3-yr., TT, field, 12 to 15 ins. 35.00 300.00
4-yr., TT, field, cut backs, 18 to 24 ins. 50.00 450.00

Thuja occ. pyramidalis
3-yr., TT, field, 12 to 15 ins. 35.00 300.00

Thuja occ. woodwardii
1-yr., 2 1/2-in. Rose pots, 4 to 6 ins. 20.00 175.00
3-yr., TT, field, 8 to 12 ins. 35.00 300.00
4-yr., TT, field, 12 to 15 ins. 45.00 400.00

Hex crenata hetzi
3-yr., TT, field, 6 to 12 ins. 35.00 300.00
4-yr., TT, field, 10 to 15 ins. 40.00 350.00

Hex crenata rotundifolia
4-yr., TT, field, 8 to 12 ins. 35.00 300.00
5-yr., TT, field, 12 to 15 ins. 45.00 400.00
5-yr., TT, field, 18 to 24 ins. 75.00 650.00

Hex crenata stokesii, pat. 887
4-yr., TT, field, 4 to 6 ins. 40.00 350.00
5-yr., TT, field, 6 to 12 ins. 60.00 450.00
The above a partial list of liners, complete catalog on request.

HEASLEY'S NURSERIES
247 Freeport Rd. Butler, Pa.
EVERGREENS AND AZALEAS
Liners and rooted cuttings.
Write for our trade list.
F. D. HALL & SON NURSERY
336 Saxonburg Rd. Butler, Pa.

Watch Your Results From
American Nurseryman Classified Ads.

EVERGREENS, Liners—Continued

ORNAMENTAL LINERS		Per 100	Per 1000
Taxus, Adams			
1-yr., 2 1/4-in. pots	.....	\$18.00	\$170.00
2-yr., 2 1/4-in. pots	.....	24.00	230.00
3-yr., TT	.....	35.00	325.00
Taxus andersoni			
1-yr., 2 1/4-in. pots	.....	18.00	170.00
2-yr., 2 1/4-in. pots	.....	24.00	230.00
3-yr., TT	.....	35.00	325.00
4-yr., TT	.....	42.50	400.00
Taxus browni			
1-yr., 2 1/4-in. pots	.....	18.00	170.00
2-yr., 2 1/4-in. pots	.....	24.00	230.00
3-yr., TT	.....	35.00	325.00
4-yr., TT	.....	42.50	400.00
Taxus cuspidata			
1-yr., 2 1/4-in. pots	.....	17.00	160.00
2-yr., 2 1/4-in. pots	.....	22.00	210.00
3-yr., TT	.....	35.00	325.00
4-yr., TT	.....	42.00	400.00
5-yr., TT	.....	62.50	600.00
Taxus hicksii			
1-yr., 2 1/4-in. pots	.....	18.00	170.00
2-yr., 2 1/4-in. pots	.....	23.00	220.00
3-yr., TT	.....	35.00	325.00
4-yr., TT	.....	42.00	400.00
5-yr., TT	.....	62.50	600.00
Taxus hunnewelliana			
2-yr., 2 1/4-in. pots	.....	24.00	230.00
Ilex convexa			
3-yr., TT	.....	37.50	350.00
4-yr., TT	.....	45.00	425.00
Ilex hetzi			
3-yr., TT	.....	37.50	350.00
4-yr., TT	.....	45.00	425.00
Ilex rotundifolia			
3-yr., TT	.....	35.00	325.00
4-yr., TT	.....	42.50	400.00
Ilex stokesii, pat. No. 887			
1-yr., 2 1/4-in. pots	.....	25.00	225.00
2-yr., 2 1/4-in. pots	.....	27.50	250.00
3-yr., TT	.....	37.50	350.00

EVERGREEN SEEDLINGS		Per 100	Per 1000
Scotch Pine			
2-yr. seedlings, 2 to 4 ins.	.....	\$2.00	\$ 7.50
2-yr. seedlings, 4 to 8 ins.	.....	4.00	20.00
3-yr. seedlings, 6 to 12 ins.	.....	4.00	20.00
3-yr. seedlings, 8 to 14 ins.	.....	4.00	20.00
French Scotch Pine			
2-yr. seedlings, 1 to 3 ins.	.....	2.00	7.50
2-yr. seedlings, 3 to 6 ins.	.....	4.00	20.00
Spanish Scotch Pine			
2-yr. seedlings, 1 to 3 ins.	.....	2.00	7.50
2-yr. seedlings, 3 to 6 ins.	.....	4.00	20.00
2-yr. seedlings, 4 to 8 ins.	.....	5.00	25.00
White Pine			
2-yr. seedlings, 1 to 2 ins.	.....	2.00	10.00
2-yr. seedlings, 2 to 5 ins.	.....	3.00	15.00
Mugho Pine			
3-yr. seedlings, 1 to 3 ins.	.....	7.00	35.00
Austrian Pine			
2-yr. seedlings, 1 to 3 ins.	.....	2.00	7.50
2-yr. seedlings, 3 to 5 ins.	.....	3.00	15.00
Douglas Fir			
3-yr. seedlings, 2 to 4 ins.	.....	3.00	15.00
3-yr. seedlings, 4 to 8 ins.	.....	6.00	30.00
Colorado Blue Spruce			
3-yr. seedlings, 2 to 4 ins.	.....	2.50	12.50
3-yr. seedlings, 4 to 8 ins.	.....	5.00	25.00
Norway Spruce			
2-yr. seedlings, 2 to 4 ins.	.....	2.00	10.00
2-yr. seedlings, 4 to 8 ins.	.....	4.00	20.00

We also have transplants in many of these items. Please write for complete list.

TERMS: No charge for packing. 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate. Special quotations on large orders.

HEASLEY BROS. NURSERY

R. D. 1, Box 218, Greensburg, Pa.

Phone LA 7-5532

10 to 16 ins.	9.00	....
Concolor Fir, 4 to 8 ins.	6.50	....
6 to 12 ins.	5.00	25.00
American Arborvitae, 3 to 6 ins.	5.00	27.50
5 to 10 ins.	6.00	22.50
6 to 12 ins.	7.00	30.00
10 to 15 ins.	8.00	40.00
Colorado Blue Spruce, 3 to 5 ins.	5.00	25.00
6 to 12 ins.	6.00	27.50
10 to 15 ins.	10.00	50.00
Black Hills Spruce, 3 to 6 ins.	5.00	25.00
6 to 12 ins.	8.00	40.00
10 to 16 ins.	10.00	50.00
Scotch Pine, non-yellowing,		
5 to 10 ins.	7.00	35.00
3 to 6 ins.	5.00	25.00
Dwarf Mugho Pine, 3 to 6 ins.	7.00	....
Dwarf Swiss Stone Pine, 12-yr., 12 to 20 ins.	\$5.00 each, express collect.	Remittance with order.
Plants at 100 rate sent prepaid up to zone 5.	600 plants at 1000 rate, express collect.	Packing free.
Burlap bags, approximately 50x70 ins. when opened, 15c each.	F.O.B. 25 to a	bundle.

NEUNER'S EVERGREEN NURSERY

368 Eicher Rd., Pittsburgh 2, Pa.

TAXUS LINERS

4-yr. transplants, from cuttings, already root pruned and cut back to the following sizes for spring planting.

Each, 100		1000
Taxus cuspidata, 12 to 18 ins.		
.....	.....	\$0.55
Taxus cuspidata, 12 to 18 ins.		
.....	.....	\$0.45

BULK'S NURSERIES, INC.

610 W. Montauk Highway, Babylon, N. Y.

EVERGREEN LINERS

GLOBE ARBORVITAE,		Per 100	Per 1000
woodwardi, dark green, 1-yr.			
transplants, 4 to 6 ins.	.....	\$30.00	\$250.00
Hovey's, green; 1-yr. trans-			
plants, 4 to 6 ins.	.....	25.00	200.00
2-yr. trans., 6 to 8 ins.	.....	40.00	300.00
PYRAMIDAL ARBORVITAE,			
compacta, green, 1-yr.	.....	35.00	300.00
transplants, 5 to 7 ins.	.....	35.00	300.00
JUNIPER, Blue Pfitzer,			
(chinensis hetzi), 1-yr.	.....	25.00	200.00
transplants, 5 to 7 ins.	.....	25.00	200.00
JUNIPER, Irish, 1-yr. trans-			
plants, 4 to 6 ins.	.....	30.00	250.00
JUNIPER, Andorra, 1-yr.			
transplants, 4 to 6 ins.	.....	30.00	250.00
JAP. YEW, grown from seed,			
Taxus cuspidata capitata,	.....	30.00	250.00
upright, pyramidal, 4-yr.	.....	30.00	250.00
transp. (2-2), 6 to 12 ins.	.....	30.00	250.00
JAP. YEW, transplanted rooted			
cuttings	.....	30.00	250.00
Taxus cuspidata, spreading,			
1-yr. transp., 5 to 6 ins.	.....	25.00	175.00
2-yr. transp., 6 to 8 ins.	.....	35.00	250.00
Taxus hicksii, upright,			
1-yr. transp., 5 to 7 ins.	.....	25.00	175.00
2-yr. transp., 8 to 10 ins.	.....	40.00	300.00
Taxus browni, upright,			
1-yr. transp., 4 to 6 ins.	.....	25.00	175.00
2-yr. transp., 6 to 8 ins.	.....	40.00	300.00
Taxus hunnewelliana, semi-			
upright,	.....	25.00	175.00
1-yr. transp., 4 to 6 ins.	.....	25.00	175.00
Taxus intermedia, spreading,			
1-yr. transp., 4 to 6 ins.	.....	25.00	175.00
2-yr. transp., 6 to 8 ins.	.....	35.00	250.00
JAPANESE HOLLY (Ilex),			
rotundifolia, transplants,	.....	35.00	300.00
6 to 10 ins.	.....	35.00	300.00
convexa, transplants,			
6 to 10 ins.	.....	35.00	300.00
crenata hetzi, transplants,			
6 to 10 ins.	.....	35.00	300.00

AMERICAN HOLLY, FEMALE,		Per 100	Per 1000
10 per cent male, 1-yr.			
transplants, 8 to 12 ins.	.....	50.00	400.00
DELIA BRADLEY,			
1-yr. transp., 8 to 12 ins.	.....	50.00	400.00
Box 160C, MUSSEY FORESTS, INC.,			
Indiana, Pa.			

ROOTED CUTTINGS AND LINERS		Each, 100	1000
Rooted cuttings			
Arborvitae, American, 5 to 8 ins.	.....	\$0.03	\$0.03
Arbor, woodwardi, 6 to 8 ins.	.....	.09	.09
Juniper, Hetz, 6 to 8 ins.	.....	.09	.09
Juniper, Irish, 6 to 8 ins.	.....	.09	.09
Taxus, Andersson, 6 to 8 ins.	.....	.09	.09
Taxus brevifolia, 5 to 6 ins.	.....	.09	.09
Taxus cuspidata, 5 to 6 ins.	.....	.09	.09
Taxus cuspidata, 6 to 8 ins.	.....	.09	.09
Taxus cusp. capitata, 6 to 8 ins.	.....	.09	.09
Taxus hatfieldi, 8 to 9 ins.	.....	.09	.09
Taxus hicksii, 8 to 9 ins.	.....	.09	.09
Taxus intermedia, 6 to 8 ins.	.....	.09	.09
Taxus wymanii, 6 to 8 ins.	.....	.09	.09
Euonymus patens, 6 to 8 ins.	.....	.06	.06
Euonymus patens, 6 to 8 ins.	.....	.06	.06
small leaf, variegated	.....	.06	.06
Baltic Ivy, rooted cuttings (per)	.....	7.00	65.00
New Thorneville Ivy	.....	8.00	75.00
1-YR. TRANSPLANTS			
Taxus, Andersson, each	.....	.15	.12
Taxus browni	.....	.15	.12
Taxus hatfieldi	.....	.16	.14
Taxus hicksii	.....	.15	.12
2-YR. TRANSPLANTS			
Taxus cuspidata	.....	.20	.17
Taxus wardi	.....	.23	.20
3-YR. TRANSPLANTS			
Taxus browni	.....	.33	.30
Taxus cuspidata	.....	.25	.22
Taxus wardi	.....	.35	.33
4-YR. TRANSPLANTS			
Taxus cuspidata	.....	.35	.33
Euonymus vegetus, 2 1/4-in.	.....	10.00	90.00
Baltic Ivy, 2 1/4-in. pots	.....	11.50	100.00
Baltic Ivy, 2 plants, 2 1/4-in. pot	.....	15.00	140.00
Thornedale Ivy, 2 1/4-in. pots	.....	13.00	120.00
Cash with order, 5 per cent discount, 1/3			
deposit with all orders, balance at shipping			
time. 300 of a variety at 1000 rate.			

NEIDEL'S NURSERY

216 Park Ave., Oil City, Pa.

EVERGREENS		Each, 100	1000
Rooted cuttings			
Arborvitae, American, dark	.....	\$0.10	\$0.09
green, 6 to 8 ins.	.....	.11	.10
Arborvitae, pyramidal, 6 to 8 ins.	.....	.10	.09
Arborvitae, globe, 4 to 8 ins.	.....	.10	.09
Juniper, Hetz, 6 to 8 ins.	.....	.10	.09
Juniper, Pfitzer, 6 to 8 ins.	.....	.10	.09
Juniper, Savin, 6 to 8 ins.	.....	.10	.09
Juniper, Von Ehren, 6 to 8 ins.	.....	.10	.09
Juniper, Andorra, 6 to 8 ins.	.....	.10	.09
Taxus cuspidata, 6 to 8 ins.	.....	.09	.08
Taxus hunnewelliana, 6 to 8 ins.	.....	.10	.09
Taxus capitata (leaders), 6 to 8 ins.	.....	.13	.12
2 AND 3-YR. TRANSPLANTS			
Juniper, Savin	.....	\$0.22	\$0.20
Taxus cuspidata	.....	.22	.20
Taxus hicksii	.....	.22	.20
250 per variety at 1000 rate, Spring deliv-			
ery.			
5 per cent discount, cash with order.			

DE WINTER'S NURSERY

653 Port Sheldon Rd., Grandville, Mich.

SPRING 1961

ROOTED CUTTINGS		100	1000
Arborvitae, pyramidal, 6 to 10 ins.			
Arborvitae woodwardi, 6 to 8 ins.	.....	\$0.10	\$0.09
Juniper, Andorra, 6 to 8 ins.	.....	.10	.09
Juniper, Hetz, 6 to 8 ins.	.....	.10	.09
Juniper, Pfitzer, 6 to 8 ins.	.....	.10	.09
Taxus hicksii, 6 to 10 ins.	.....	.09	.08
Taxus cuspidata, 6 to 10 ins.	.....	.09	.08
Taxus browni	.....	.10	.09
Taxus capitata (leaders),	.....	.14	.12
6 to 8 ins.	.....	.14	.12
1-YR. TRANSPLANTS			
Taxus densiformis	.....	.18	.15
Taxus capitata	.....	.18	.15
Taxus cuspidata	.....	.16	.12
Taxus hicksii	.....	.16	.12
Taxus browni	.....	.18	.15
Juniper, Pfitzer (potted)	.....	.20	.18
2-YR. TRANSPLANTS			
Taxus cuspidata	.....	.20	.17
Taxus hicksii	.....	.20	.17

EVERGREEN PLANTING STOCK

Scotch Pine, French strain, blue-green, straight stem		Per 100	Per 1000
Scotch Pine, Spanish strain, excellent dark, rich green, straight stem.			
2-yr. sdgs. (2-0), 2 to 4 ins.	\$2.00	\$10.00	
2-yr. sdgs. (2-0), 4 to 8 ins.	5.00	25.00	
3-yr. sdgs. (3-0), 10 to 16 ins.	6.00	28.50	
White Pine			
2-yr. sdgs. (2-0), 4 to 8 ins.	5.00	25.00	
3-yr. sdgs. (3-0), 6 to 10 ins.	6.00	30.00	
American Red Pine			
2-yr. sdgs. (2-0), 2 to 4 ins.	3.00	15.00	
3-yr. sdgs. (3-0), 8 to 12 ins.	6.00	30.00	
Austrian Pine			
2-yr. sdgs. (2-0), 4 to 6 ins.	4.00	20.00	
3-yr. sdgs. (3-0), 8 to 12 ins.	5.00	25.00	
Douglas Fir, blue			
2-yr. sdgs. (2-0), 5 to 10 ins.	8.00	30.00	
3-yr. sdgs. (3-0), 10 to 16 ins.	10.00	40.00	
Colorado Blue Spruce			
2-yr. sdgs. (2-0), 4 to 8 ins.	5.00	25.00	
3-yr. sdgs. (3-0), 8 to 12 ins.	9.00	45.00	
5-yr. transp. (3-2), 6 to 10 ins.	14.00	75.00	
White Spruce			
2-yr. sdgs. (2-0), 5 to 10 ins.	6.00	30.00	
3-yr. sdgs. (3-0), 12 to 18 ins.	8.00	40.00	
5-yr. transp. (3-2), 12 to 18 ins.	10.00	70.00	
Norway Spruce			
4-yr. sdgs. (4-0), 15 to 24 ins.	8.00	40.00	

CLAIR JOHNSTON & SON NURSERIES
Box 148 Creekside, Pa.

EVERGREENS, LINERS

Eastern Red Cedar		Per 100	Per 1000
6 to 12-in. seedlings		\$10.00	\$35.00
Ponderosa Pine			
2 to 4-in. seedlings		18.00	
Jack Pine, 4 to 8-in. seedl.	3.50	12.50	
10 to 18-in. seedlings	8.00	22.50	
Norway Spruce			
6 to 10-in. seedlings	5.00	25.00	
6 to 12-in. transplants	12.50	50.00	
8 to 12-in. seedlings	12.50	40.00	
Colorado Blue Spruce			
2 to 4-in. seedlings	5.00	20.00	
3 to 6-in. seedlings	6.00	25.00	
Douglas Fir			
2 to 4-in. seedlings	5.00	20.00	
3 to 6-in. seedlings	6.00	25.00	
White Pine, 2 to 4-in. seedl.	3.75	15.00	
3 to 6-in. seedlings	4.50	20.00	
3 to 6-in. transplants	6.50	25.00	
Austrian Pine, 6 to 10-in. seedl.	6.00	20.00	
4 to 8-in. seedlings	5.00	18.00	
Scotch Pines, several varieties available			
8 to 14-in. seedlings	8.00	25.00	
6 to 10-in. seedlings	6.00	20.00	
3 to 6-in. seedlings	4.00	15.00	
All 100 rate quotations shipped postpaid.			
50 at 100 rate; 500 at 1000 rate.			
TERMS: Cash with order, please, or 25			
per cent deposit, balance on shipment.			
VANS PINES, INC.			
West Olive, Mich.			

2-YR. POTTED, 2½-IN. POTS

Juniper, Armstrong		Each, 100	1000
Juniper, Pfitzer		\$0.27½	\$0.25
Juniper, Blue Pfitzer		.25	.22½
Arb. Berckmans' Biota		.27½	.25
Taxus andersonii		.25	.22½
Taxus Adams columnaris		.27½	.25
Taxus cuspidata		.25	.22½
Taxus hicksii		.25	.22½
Taxus media		.27½	.25
Taxus beryllii		.27½	.25

ROOTED CUTTINGS

In last house, ready now.			
Juniper, Armstrong		.13	.12
Juniper, Pfitzer		.12	.11
Juniper, Blue Pfitzer		.13	.12
Taxus andersonii		.11	.10
Taxus Adams columnaris		.12	.11
Taxus beryllii		.12	.11
Taxus cuspidata		.11	.10
Taxus hicksii		.11	.10
Taxus media		.11	.10

VOGE NURSERY

New Lebanon, O.

EVERGREENS, SEEDLINGS

In 500 to 10,000 lots.			
American Holly, seedlings, 4 to 6 ins.		\$15.00	
per 1000, 6 to 12 ins.		35.00	
per 1000, 12 to 18 ins.		35.00	
Kalmia latifolia, 4 to 6 ins.		20.00	
per 1000, 6 to 12 ins.		30.00	
per 1000, 12 to 18 ins.		40.00	
Rhododendrons, 6 to 12 ins.		5.00	
Juniperus virginiana, 6 to 12 ins.		20.00	
per 1000, 12 to 18 ins.		25.00	
Selected understock		50.00	
Vinca minor (Blue Myrtle vine), liners,			
\$10.00 per 1000; made-up clumps, 15 to 20			
leads, \$30.00 per 1000; 20 to 30 leads, \$35.00			
per 1000.			

Write for our wholesale price list.

P. O. Box 26 NOLERIDGE NURSERIES
McMinnville, Tenn.

HEMLOCKS, LINING-OUT STOCK

Strong liners that will please you.		Each, 100	1000
Hemlock, T.T., 8 to 10 ins.		25c	22½c
Hemlock, T.T., 10 to 12 ins.		35c	32½c
The 100 rate applies beyond the beetle zone.			

TWIN CEDAR NURSERY

Williamsburg, Mass.

3-YR. BEDDED, POTTED

Each, 100		1000	
Andorra Juniper, 8 to 10 ins., T.		\$0.50	\$0.40
10 to 15 ins., T.		.60	.50
Pfitzer Juniper, 8 to 10 ins., T.		.50	.40
10 to 15 ins., T.		.60	.50
Pfitzer comp. Juniper,			
8 to 10 ins., T.	.50	.40	
10 to 15 ins., T.	.60	.50	
Taxus hicksii, 6 to 10 ins., T.		.45	.40
Thuja globosa, 12 to 15 ins., T.		.50	.45
Thuja pyramidalis,			
18 to 24 ins., T.	.60	.50	
Thuja wareana (Siberian),			
12 to 15 ins., T.	.50	.45	
2-YR. POTTED, 2½-IN. POTS			
Juniper, Pfitzer		.27½	.25
Juniper, Pfitzer compacta		.27½	.25
Taxus, Adams columnaris		.30	.27½
Taxus brownii		.30	.27½
Taxus intermedia		.30	.27½
Taxus woodwardii		.25	.22½

THE HOLLANDIA GARDENS
South Vienna, O.

FIELD-GROWN TRANSPLANTED STOCK

Each			
Chamaecyparis lawsoniana allumi,			
12 to 15 ins., 3-yr., T.	\$0.45		
Globe Arborvitae (Woodward),			
4 to 6 ins., 1-yr., T.	.20		
Juniper, Andorra, 4 to 6 ins., 1-yr., T.		.15	
Taxus capitata, 4 to 6 ins., 3-yr., T.		.15	
Taxus cuspidata, 4 to 6 ins., 2-yr., T.		.15	
Taxus media hicksii, 4 to 6 ins., 2-yr., T.		.15	
Taxus media brownii,			
4 to 6 ins., 2-yr., T.	.15		
Blue Spruce (Colorado)			
8 to 10 ins., 5-yr., T.	.35		
White Spruce, 10 to 12 ins., 5-yr., T.		.30	
Terms: Cash, or C.O.D. Packing at cost.			
Minimum order 10 plants of a variety. F.O.B.			
Harmony, Pa.			
Shipments made by Railway Express or			
parcel post.			

R. D. 1 VULAKOVIC'S NURSERY
Harmony, Pa.

ROOTED CUTTINGS

Rooted in open beds in summer of 1960.			
Ilex hetzi		.5c	
Ilex microphylla		.5c	
Ilex bullata		.5c	
Ligustrum lucidum		.4c	
LINERS			
Hetz Juniper, 2½-in. pots		.12½c	
Andorra Juniper, 2½-in. pots		.12½c	
Savin Juniper, 1-yr., field-grown		.10c	
Von Ehrhorn Juniper, 1-yr., field-grown		.10c	
Juniperus fastigiata, 1-yr., field-grown		.10c	
Write for complete list of liners and			
finished Evergreens.			

STRAIN & SONS NURSERY

Highway 31 South Athens, Ala.

ROOTED CUTTINGS AND TRANSPLANTS

Strong, true to type, rooted cuttings of

the following:

Taxus varieties: Brown, kelsayi, hicksii,

femina, wardii, Hill's dwarf pyramidal, dwarf

erecta and cuspidata.

Hill's pyramidal and boothii Arborvitae.

These are large cuttings, hormone treated

and radiant heat grown, producing an abundance

of strong roots.

\$10.00 per 100, \$90.00 per 1000.

Write for prices of 2 and 3-yr. transplants

of the above varieties.

Free packing for cash with order.

ARTLEY'S NURSERY

339 Cherry St. Montoursville, Pa.

MIAMI NURSERY PRICE LIST

2-YR. POTTED STOCK

The finest: Taxus, Arborvitae, Junipers

and broad-leaved liners and rooted cuttings.

2-yr. pot-grown stock, 7 to 9 ins., sheared,

26c to 26c each, per 1000 rate.

1-yr.-old, heavy rooted cuttings, 8c to 10c

per 1000 rate.

NOTE: Write for price list with full line

of potted stock and rooted cuttings. "GET

ACQUAINTED" OFFER on 250 2-yr. pot

plants or 250 rooted cuttings. Special prices

on large quantities. Samples free on request.

Call collect TIPP CITY, N. 7-6398.

MIAMI NURSERY CO., TIPP CITY, O.

TAXUS, 2-YR. BEDDED

Varieties, densiformis, Hicks, Brown,

Ward, Seban intermedia, cusp. nana femi-

na, Anderson, \$26.00 per 100.

JUNIPERS, 2½-IN. POTS

Pfitzeriana nana, pfitzeriana compacta and

Hetz, \$25.00 per 100.

3000 VIBURNUM LANTANA

2-yr., 10 to 15 ins., \$12.00 per 100, \$90.00

per 1000.

JOHN BOS NURSERY, CLYDE, O.

ROOTED CUTTINGS

Taxus cuspidata Per 1000

Minimum order, 500.

Shipped immediately unless otherwise stated.

Cash or check with order, please.

Postage paid.

DERR'S NURSERY

R. D. 1 Northumberland, Pa.

Check Your Stock NOW!

If you have a surplus

sell it through the

American Nurseryman Classified Ads.

TSUGA CANADENSIS (Canada Hemlock)

Collected seedlings.

Per 100 Per 1000

6 to 9 ins. \$5.00 \$30.00

9 to 12 ins. 8.00 70.00

Nursery-grown transplants.

Each, 100 1000

8 to 12 ins., 2-3 \$0.25 \$0.24

12 to 18 ins., 2-3 .50 .40

18 to 24 ins., 2-3 .70 .60

Send for complete trade list of hardy na-

tive Ferns, wildflowers, Evergreens, trees and

shrubs.

ISSAC LANGLEY WILLIAMS

Box AN Exeter, N. H.

BUXUS SEMPERVIRENS, FIELD-GROWN

5 yrs. old, 8 to 12 ins., 50c each, \$45.00

per 100, \$400.00 per 1000.

BUXUS SUFRUTICOSA LINERS

1-yr. \$7.00 per 100

2-yr. \$12.00 per 100

3-yr. \$15.00 per 100

NANDINA SEEDLINGS

6 to 8 ins. \$5.00 per 100

12 to 15 ins. \$10.00 per 100

2 to 3 ft. \$15.00 per 100

All plants postage or express collect.

PINKSTON NURSERIES, PARROTT, GA.

LINING-OUT EVERGREENS

SEE OUR DISPLAY AD

IN THIS ISSUE

ON PAGES 26-27.

CARTWRIGHT NURSERY CO.

Collierville, Tenn.

EVERGREENS, LINERS

Per 100 Per 1000

Taxus capitata, 2-yr. sdgs. \$5.00 \$45.00

Taxus cuspidata, 2-yr., T. 20.00 180.00

3-yr., T. cut back. 25.00

EVERGREENS, B&B—Continued

WHITE, RED AND SCOTCH PINE	
Each, per 100	
White Pine, 2 to 3 ft., B&B.....	\$2.50
White Pine, 3 to 4 ft., B&B.....	3.50
White Pine, 4 to 5 ft., B&B.....	4.50
White Pine, 5 to 6 ft., B&B.....	6.50
White Pine, 6 to 7 ft., B&B.....	9.00
RED PINE, 2 to 3 ft., B&B.....	2.50
Red Pine, 3 to 4 ft., B&B.....	3.50
Red Pine, 4 to 5 ft., B&B.....	4.50
Red Pine, 5 to 6 ft., B&B.....	6.50
Red Pine, 6 to 7 ft., B&B.....	7.50
SCOTCH PINE, 2 to 3 ft., B&B.....	2.50
Scotch Pine, 3 to 4 ft., B&B.....	3.50
Scotch Pine, 4 to 5 ft., B&B.....	4.50
Scotch Pine, 5 to 6 ft., B&B.....	6.50
Scotch Pine, 6 to 7 ft., B&B.....	7.50

Very full, well-trimmed, well-dug by experienced diggers. Dig your own, only \$2.50 each. Over 250 acres with 300,000 Pine, Spruce, Fir and other Evergreens.

WADE CHRISTMAS TREE FARM

Route 1 Bellville, O.
Day Phones: Butler, TU 3-3874; TU 3-3191.
Mansfield, LA 2-4472. Night Phone, 7:00 to 8:30, Butler, TU 3-3874.

ARE YOU LOOKING FOR LARGE SPECIMEN MATERIAL?

First-quality, heavy and sheared.
Taxus cuspidata, 3 1/2 to 5 ft.
Taxus cuspidata nana, 3 1/2 to 5 ft.
Taxus hicksii, 3 1/2 to 6 ft.
Taxus capitata, 5 to 9 ft.
Ilex hetzi, 30, 36 and 42 ins to 48 ins.
Ilex opaca, 3, 4 and 5 ft.
Ilex rotundifolia, 30, 36 and 42 ins. to 48 ins.
Thuja elegantissima, 5, 6 and 7 ft. to 8 ft.
Pinus nigra (Austrian), 4, 5, 6 and 7 ft. to 8 ft.
Magnolia soulangeana, 6 to 9 ft.
Magnolia stellata, 6, 7 and 8 ft. to 9 ft.
Euonymus alatus compactus, 5x5, 6x6 ft.
Euonymus vegetus Saxcoke, 30, 36 and 42 ins.
Cotoneaster adpressa, 24, 30 and 36 ins.
Kwanzan and Weeping Cherry, 3 to 4-in. cal.
We have large plants in more varieties.
See or call:
FAIRVIEW FLORAL NURSERY
27819 Center Ridge Rd., U. S. 20
Westlake, Ohio.

EVERGREENS, B&B

Colo. Blue Spruce, sheared, 2 to 2 1/2 ft.	\$3.00
2 1/2 to 3 ft.	3.50
Norway and White Spruce, sheared,	
2 to 2 1/2 ft.	2.15
2 1/2 to 3 ft.	2.50
3 to 4 ft.	3.00
Douglas Fir, sheared, 3 to 4 ft.	3.75
Sweet Gum, good heads, 1 1/2 to 2 ins.	4.00
Rubrum Maple, good heads, 1 1/2 to 2 ins.	4.00
2 to 2 1/2 ins.	5.00

W. V. GRIFFIN

8 Elizabeth Ave. East Brunswick, N. J.
N. J. Turnpike, Exit 9, Phone CL 7-2484

JUNIPERS, B&B

3000 Andorra, 15 to 18, 18 to 24, 24 to 30 ins.	
2000 Hetz, 18 to 24, 24 to 30, 30 to 36 ins.	
1000 Pfitzer, 15 to 18, 18 to 24 ins.	
Some 3 to 4 ft.	
ARBORVITAE	
3000 Woodward globe, 15 to 18, 18 to 24 ins.	
3000 nigra, 18 to 24, 24 to 30, 30 to 36 ins.	
1000 Pyramidal, 2 to 3 ft.	

Other kinds in smaller lots. See our ad under Shrubs and Trees.

NAGLE'S NURSERY

R. 2, Box 267 Decatur, Mich.
Phone Garfield 3-3739

NORWAY SPRUCE

Well-sheared, full, heavy trees, good color.	
Each, 1-30 30 up	
2 to 3 ft., B&B.....	\$2.75 \$2.50
3 to 4 ft., B&B.....	3.50 3.25
4 to 5 ft., B&B.....	4.50 4.00

Row-run and you dig your own, \$2.50 each.

Ideal for specimen, screen and windbreaks.

We invite your inspection.

PAUL'S NURSERY

R. F. D. 3 Shelby, O.
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GRAFTED JUNIPERS, SHEARED

Canari, burki, hillii, keteleeri and chin. mascula, 3 to 3 1/2 ft., \$3.50; 4 to 4 1/2 ft., \$4.50; 5 to 5 1/2 ft., \$6.00; 6 to 6 1/2 ft., \$7.50; 7 to 7 1/2 ft., \$9.00; 8 to 8 1/2 ft., \$12.00. Taxus hicksii, 18 to 24 ins., \$3.50; 24 to 30 ins., \$4.25. Crataegus cordata, 6 to 8 ft., B&B, \$5.50. Phone TWInbrook 4-9828.

WAYNE HILL NURSERY

1495 North "B" St. Hamilton, O.

PFITZER JUNIPER (GLOBE)

500 sheared specimens, 24 to 30 ins. \$375.00

500 sheared specimens, 30 to 36 ins. \$475.00

EUONYMUS PATENS, large leaf

1000 2 to 3 ft., bushy, B&B..... 275.00

ANDORRA JUNIPER

100 24 to 30 ins., B&B..... 375.00

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Higginsville, Mo.

Pines, for sale or trade Red White Scotch

Sheared, B&B, 2 to 3 ft. \$1.75 2.00 \$1.75

Sheared, B&B, 3 to 4 ft. 2.00 2.50

Sheared, B&B, 4 to 5 ft. 2.50 3.00

Sheared, B&B, 5 to 6 ft. 3.50 4.00

No. 8 Pine nursery.

Sunnyvale Nursery, Box 85, Athens, O.

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from our Holly Creek Nursery, Melfa, Va.
Good, heavy landscape stock. Sheared and well-branched. Medium sizes. The kind and quality we like to use on our own jobs.
Priced so you can make money. Send your want list to either nursery.

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COLORADO BLUE SPRUCE

Excellent color, full body, well-shaped.

All in 10 or 12-in. Keiding pots.

18 to 24 ins. \$2.75

24 to 30 ins. 3.50

30 to 36 ins. 4.25

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PFITZER JUNIPER

Attention, Chicago area landscapers!

Quality Pfitzer, 2 ft. to 4 ft. Priced reasonably. Also Yews, Douglas Fir, etc.

THE EVERGREEN NURSERIES

(J. Van Wyngarden)

R. R. 2 Phone Lowell 3514 Hebron, Ind.

SPRUCE AND YEW

35 dwarf Alberta Spruce, up to 5 ft.

Hicks Yew, 6 to 7 ft., for screens.

All have been transplanted.

CARL HUBBELL

Northumberland, Pa.

SPECIMEN DOUGLAS FIR

7 to 8 ft. average. You dig, \$20.00 each.

THE EVERGREEN NURSERIES

J. Van Wyngarden Hebron, Ind.

Phone Lowell 3514.

EVERGREENS, Miscellaneous

PRICE LIST FOR SPRING 1961

Per 100 Per 1000

ROOTED CUTTINGS, June 1, \$10.00 \$90.00

Taxus, browni, hicksii, cuspidata, andersoni, Thuja, nigra, Wintergreen, Ilex, convexa, hetzi and rotundifolia.

Taxus cuspidata capitata (tips).

6 to 8 ins. \$14.00 \$120.00

1-YR. OPEN BEDDED STOCK 16.00 140.00

2-YR. BEDDED STOCK 20.00 180.00

Taxus, hicksii, browni, thayerae, hunnelli, cuspidata.

Ilex hetzi, large 2-yr. plants, 14c each, per 1000.

6-YR. BARE-ROOT STOCK, IDEAL FOR CANS.

8 to 10 ins. bushy.....\$80.00 \$700.00

Taxus, hicksii, browni, cuspidata, andersoni.

B&B STOCK, 12 to 15 ins. bushy, compact plants, 1 to 25, \$2.25 each; over 25, \$2.00.

Taxus, hicksii, browni, cuspidata, andersoni, thayerae.

PACHYANDRAS, 2-yr., bedded with light shade.....\$10.00 \$90.00

2 per cent discount, cash with order. All 1000 orders carry 50 extra plants.

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R. R. 2, Vrooman Rd. Painesville, O.

EVERGREENS

Old Heavy Berry, \$75.00 per 100.

Maurice River, Menantico, Eleanor, Big Red, Red Velvet, Cumberland, Canary and Longwood Garden, \$65.00 per 100.

ILEX AQUIFOLIUM, 3-in. pots.

Green and variegated, \$75.00 per 100.

ILEX CRENATA, 1-yr. liners.

Rotundifolia, \$2.00 per 100.

Convexa, \$25.00 per 100.

AZALEAS, 2 1/2-in. pots, \$125.00 per 1000.

Herbert, hinodogiri, Palestrina, Othello, Hino-Crimson and ledifolia alba.

TAXUS, rooted cuttings.

Densiformis, \$100.00 per 1000.

Hicks, \$80.00 per 1000.

2-yr. banded, \$150.00 per 1000.

Hunnelliana, Hicks and Hatfield, 21 to 24 ins., B&B, \$2.50 each.

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Lamb Rd., Phone LU 9-3844, Pitman, N. J.

MUST MOVE TO CLEAR LAND

Nursery-grown.

Scotch Pine, Hemlock, Colorado Blue Spruce, Balsam Fir, Red Pine, White Pine, Junipers, Yews, White Birch, From transplants to 7 ft. YOU DIG, WE DIG. Collected Canadian Hemlock, transplants, 6 to 14 ins., 1000, \$50.00, Phone AT 6-2671.

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P. O. Box 416 Sunbury, Pa.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

Small Ads Do Great Things in the American Nurseryman Classified Section.

FRUIT AND NUT TREES

DWARF APPLES 10 100

2-yr., 4 to 6 ft., bare-root.....\$16.00 \$145.00

2-yr., 3 to 4 ft., bare-root..... 14.00 125.00

Delicious, double red Winesap

Red Yorking Yellow Delicious

Stayman, double red Yellow Transparent

Summer Rambo

Ask for complete wholesale price list.

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Waynesboro, Va.

EXTRA LARGE FRUIT TREES

Apple and Pear, 3-yr.-old, 6 to 8 ft., 1-in. and up, \$1.00 each.

Peach, 5 to 6 ft., 1-in. and larger, \$1.00 each.

Sweet Cherry, 5 to 6 ft., 1/2-in., \$1.25; 1-in. and up, \$1.50 each.

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Standard and dwarf Apples, Peaches, Plums, Nectarines. Large assortment varieties and sizes. Ask for complete wholesale price list.

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RHUBARB ROOTS

LINNAEUS AND VICTORIA

Per 1000

% to 1-in. \$35.00

1 to 2-in. 70.00

Ready for immediate shipment.

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TRUE CHIPMAN'S CANADA RED

Freshly cut divisions, \$15.00 per 50, \$25.00 per 100, \$220.00 per 1000. Can ship immediately or later. Express or motor freight.

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3 grades, 1 to 1 1/2-in., also % to 1-in. and 1/2 to 1-in. Write for prices. Can ship any time. No charge for boxing.

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GERANIUMS

2 1/4-in. peat pots, \$100.00 per 1000.

4-in. clay pots, \$35.00 per 100.

All kinds of annuals in market packs, 35c each, pack of 1 doz. plants.

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QUALITY GERANIUM CUTTINGS

Unrooted, \$4.50 per 100, \$40.00 per 1000; rooted, \$8.50 per 100, \$80.00 per 1000. Special varieties slightly higher. Catalog of over 150 leading varieties free.

C. SECRIST, MUSCATINE, IA.

Turn your Surplus Stock into cash

with a Classified Ad in the American Nurseryman.

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GROUND COVERS

Hardy Myrtle (Vinca minor, Periwinkle), large individually made-up clumps of 20 to 25 leads; finest quality, \$50.00 per 1000. Lonicera Hall's halliana (Creeping Honeysuckle), 3-yr., branched, machine dug for better plants and standardized for landscaping the larger areas, \$47.50 per 1000; 5000 or more plants, \$45.00 per 1000. Pachysandra terminalis, excellent 1 to 2-yr. rooted cuttings, \$50.00 per 1000. English Ivy (Hedera helix), 1 to 2-yr. rooted cuttings, propagated outside under mist, \$50.00 per 1000. Euonymus coloratus, rooted cuttings, \$65.00 per 1000. Euonymus vegetus, \$65.00 per 1000. Euonymus patens, \$45.00 per 1000. Euonymus radicans, \$50.00 per 1000. Mixed Ferns, \$75.00 per 1000. Can furnish all of the above in 2 1/2 or 3 1/2-in. pots (ask about prices).

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Box 41, Upper River Rd. Gallipolis, O.

HARDY MYRTLE (VINCA MINOR)

Plants with 20 leads or more and good roots, \$5.00 per 100, \$40.00 per 1000.

HONEYSUCKLES

Lonicera japonica halliana, extra heavy No. 1, 3, 4 to 6 leads, \$40.00 per 1000; lighter grade, \$30.00 per 1000; sample, 100, \$4.00.

Experienced labor for grading and packing quantity orders. Immediate shipment.

One of America's progressive small nurseries. Send want list.

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BEARBERRY, pot-grown plants.

4 to 6 ins., \$45.00 per 100, \$400.00 per 1000.

6 to 9 ins., \$65.00 per 100, \$600.00 per 1000.

PACHYSTIMA CANBYI

4 to 6-in. plants.

\$55.00 per 100, \$500.00 per 1000.

Priced F.O.B. our nursery.

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Also potted stock of all items listed.

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PERENNIALS

Ready for landscaping size.
Heavy ONE-YEAR-OLD field-grown plants.
Over 525 choice HARD TO GET perennials
grown exclusively by

SPRINGBROOK GARDENS, INC.
Mentor, O.
Send for free catalog.

IBERIS (HARDY CANDYTUFT)

Excellent plants. Transplants, \$9.00 per 100, \$85.00 per 1000; also 1-yr. stock, \$2.75 per 25, \$8.00 per 100, \$75.00 per 1000. Write for complete perennial listing. Immediate shipment all plants.

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Box AN Plainwell, Mich.

DICENTRA SPECTABILIS

	25	100	1000
1 to 2-eye liners	\$10.00	\$ 95.00
2 to 3-eye divisions	.....	\$5.50	19.00 180.00
3 to 5-eye	.....	8.50	32.00 300.00
5 eyes up	12.00	45.00 425.00

THE FLOWER FARM

1209 Luehm Ave. East McKeesport 9, Pa.

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Our new fall and spring catalog is ready and is yours FREE. Write for it today. 75 illustrations in full color, showing the many exciting perennials your customers will be asking for.

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R. R. 2 Zeeland, Mich.

HARDY PLANTS

First quality, 1-yr. plants, all sand-grown, properly spaced in rows for size. Delphinium and Phlox our specialty. Write for complete perennial list today. Order now for immediate shipments.

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GYPSOPHILA BRISTOL FAIRY

2 1/4-in. pot plants, GRAFTED.			
Per doz.	Per 100	Per 1000	
\$4.00	\$25.00	\$225.00	

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(DORMANT ROOTS)

Ostrich, Lady, Clayton and Maidenhair, \$10.00 per 100, \$80.00 per 1000.
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Taylors Falls, Minn.

America's best source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

BETTER PERENNIAL PLANTS

with that wonderful root system.

FINEST FIELD-GROWN

Over 500 varieties.

WELLER NURSERIES CO., Holland, Mich.

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PERENNIALS

Write for trade list.

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A MILLION FIELD-GROWN PERENNIALS

More than 300 kinds. April delivery.

Send for list.

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SPECIALISTS IN HARDY PERENNIALS

Ask for wholesale offer.

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HARDY PINK-FLOWERED HEATH

Erica carnea, winter-hardy at New York. Blooms late winter and spring. Low, attractive, evergreen. 2 1/4-in. pots, 25 for \$5.00; 100 for \$23.00. Ask for W.S. Hardy Plant offer.

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9,500 Active Nurserymen

are in need of stock.

List your offerings in the

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HEMEROCALLIS

HEMEROCALLIS

Ideal for mass planting in parks and landscaping jobs or for gift plants. All blooming-size stock. Strong 1 to 2-plant divisions, in shades of yellow, red, rose, wine, bronze and bicolor.

Separate colors \$50.00 per 1000

No selection of color or

variety 30.00 per 1000

Minimum order 500 plants. Send for list

of over 300 top-notch varieties, old and new.

RIGEL PLANT CO., EXPERIMENT, GA.

HEMEROCALLIS

Send for wholesale list.

MIDDLEPEN PLANTATION

Orangeburg, S. C.

HIBISCUS

HENDERSON'S GIANT HARDY

HYBRID HIBISCUS (MALLOW TYPE)

Becoming very popular as a summer

blooming plant. 8 to 10-in. gorgeous blossoms

set gardens aflame. All shades of red, pink, rose and white with red eye. Hardy

from coast to coast. Can be reset bare-root

any time of year, even may be dug when

in full bloom, cut to short stubs and will

quickly rebloom. Landscaper's delight. Fine

can plant, and especially adapted to mail-

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blooming stock, mixed colors.

Grade Lots 10 100 1000

Large \$4.00 \$20.00 \$150.00

Medium 12.50 100.00

500 at 1000 rate. Booking orders for im-

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colors. Send for list of named varieties and

other plants.

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ILEX

5000 ILEX MUST BE SOLD

Lots of convexa, crenata and rotundifolia.

Husky, healthy plants, 15 to 18 ins. B&B,

only \$1.00.

DIG YOUR OWN, ONLY 75c

All stock must be sold by June 1.

Phone ORiole 6-0630. Write for list.

E. H. MOUQUIN, INC.

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ILEX ROTUNDIFOLIA

Thousands of splendid pruned plants.

15 to 18 ins. \$1.85 2 1/2 to 3 ft. \$4.50

24 to 30 ins. 3.35 3 to 3 1/2 ft. 6.65

100 or more, 10 per cent discount.

Send for spring list, Azaleas, Crabs, broad-

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Exmore, Virginia

HOLLY

English, Silver variegated.

2 1/2-in. pots, 8 ins. tall, 30c; 10 ins. tall,

35c; 12 ins. tall, 40c; 4-in. pots, single stem,

60c; 4-in., well-branched, 75c. 4-in. pots, Os-

manthus ilicifolius variegatus, well-br., 60c.

Ready now. Cash with order, please.

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Clackamas, Ore.

ILEX IN 1-GAL. CONTAINERS

Rotundifolia, crenata, burfordi, helleri,

microphylla hetzi, cornuta repandens and

the new rotunda.

80c each, in lots of 500.

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ILEX CRENATA VARIETIES

500 rotundifolia, 5000 hetzi, 300 compacta,

200 microphylla, in 2 1/4-in. peat pots.

12 1/2 c each, \$700.00 for the lot.

F.O.B. Onley, Va.

Ready May 1. Jap. beetle zone only.

BROADLEAF GARDENS

US Route 13 Onley, Va.

ILEX OPACA

Named varieties of northern origin, in sizes

from 2 ft. to 6 ft., priced according to height

and fullness. A few larger sizes. Also crenata

rotundifolia, Hetz and convexa.

SIMPSON ORCHARD CO., INC.

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SUPERIOR NAMED VARIETIES

WHOLESALE SUPPLIERS

OF LINING-OUT STOCK

Write for our price list.

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AMERICAN, ENGLISH, JAPANESE

2 1/4 and 3-in. peat pots. List on request.

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HONEYSUCKLES

Lonicera japonica, helliana, extra-heavy

No. 1, 3 and 4-yr. 15 to 24-in. field plants.

3, 4 to 6 leads, \$40.00 per 1000; lighter

grade, \$30.00 per 1000; sample, 100, \$4.00.

Experienced labor for grading and packing

quantity orders. Immediate shipment. No

order too large. Phone OR 2-4612.

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HYDRANGEAS

NEWEST OF WHITE HYDRANGEAS!

DISCARD THE 1906 MODEL FOR A

SMOOTHER RIDE WITH ANNABELLE,

which will replace Hydrangea Snowhill for

the second half of the century. Registered

1960, after thorough Illinois tests, Annabelle

will sell. The bushes grow straighter, bear

larger heads with more flowers in each, and

the heads are really symmetrical. Hardy in

zone 4. Dormant hardwood for cuttings, post-

paid on cash orders, \$15.00 for 25 ft., \$50.00

for 100 ft.

JOSEPH McDANIEL

705 S. Bussey Ave. Urbana, Ill.

DORMANT HARDWOOD CUTTINGS
OF THE GREAT NEW HYDRANGEA
ARBORESCENS ANNABELLE

ANNABELLE is a newer, bigger, showier and more sturdy plant. Flower heads have measured 12 ins. in diameter. Will replace all other white Hydrangeas.

Cutting wood, postpaid for cash with order,

\$15.00 for 25 ft., \$50.00 for 100 ft.

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R. R. 1 Anna, Ill.

HYDRANGEA NIKKO BLUE 10 100

3-yr., 3 canes or more \$5.00 \$45.00

2-yr., 2 canes and up 3.50 30.00

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Waynesboro, Va.

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BOSTON IVY

(Ampelopsis tricuspidata velutina robusta)

This is the improved European strain

grown from cuttings. Much superior in color

and uniformity to that commonly grown

from seed. 2-yr., field-grown, No. 1 plants,

\$35.00 per 100; 300 and up, \$30.00 per 100.

CONGDON'S WHOLESALE NURSERY

North Collins, N. Y.

BALTIC IVY

Very hardy.

Good ground or wall cover.

Rooted cuttings,

\$7.00 per 100, \$65.00 per 1000.

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BALTIC IVY

Thorndale, sub-zero strain, landscaping

size, 2-in. pots, \$14.00 per 100, \$125.00

1000; rooted cuttings, \$7.50 per 100. New

Wilson strain, pots, 15c; rooted cuttings, 3/4c.

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Russell Breece, R. 9 Delaware, O.

BOSTON IVY

1-yr. seedlings, 12 to 18 ins.

\$12.00 per 100, \$100.00 per 1000.

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LAWN GRASS AND SEED

LAWN SEED

Wholesale prices. F.O.B. New York.

300 lbs. will be shipped freight paid.

50 lbs. 100 lbs.

Sunny Best Mixture, contains

30 per cent Merion Blue

Grass \$37.50 \$69.00

Shady Best Mixture, contains

Wood Meadow Grass 24.50 43.00

Landscape Gardeners' Mixture,

with or without clover, 2.50 36.00

Also formulas for cemeteries, athletic

fields, golf courses, etc. Send for complete

wholesale list which includes current quo-

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HERBST BROTHERS, SEEDSMEN, INC.

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"PURE KY." BLUE GRASS LAWN SEED

Grown right here on our farm. You know

you are getting thoroughbred seed.

Join our satisfied customers.

10 lbs., \$5.50; 25 lbs., \$12.00; 50 lbs.,

\$20.00; 100 lbs., \$38.00. All F.O.B. here.

WALNUT LAWN FARM

Route 2 Lexington, Ky.

LILACS

LILACS

A list of 25 fine varieties grown from cut-

tings which guarantee own-root stock. Sizes

available: 2 to 3 ft., 3 to 4 ft. and 4 to 5 ft.

Ideal for landscape and retail store trade.

LINING-OUT STOCK—Continued

LINING-OUT STOCK		Per 100	Per 1000
Acer ginnala, 1-yr. seedlings, 6 to 9 ins.	.....	\$ 7.00	\$ 60.00
Acer ginnala, 1-yr. seedlings, 9 to 12 ins.	.....	8.50	75.00
Acer pal. atropurpureum, 3-yr., TT, FR. grafts, 12 to 15 ins.	.....	150.00	1400.00
Ampelopsis veltchii, 1-yr. seedlings, No. 1	.....	7.00	60.00
Ampelopsis veltchii, 2-yr., T, FR.	.....	30.00	250.00
Azalea mollis, seedlings, mixed; T, beds, 4 to 6 ins.	.....	25.00	200.00
Berberis, Pigmy, dwarf red; 1-yr. seedlings	.....	5.00	45.00
Cotoneaster divaricata, 2-yr., T, FR, 12 to 15 ins.	.....	25.00	200.00
Cydonia japonica, 1-yr. seedlings, 6 to 9 ins.	.....	4.50	40.00
Fagus sylvatica, 4-yr., TT, FR, 12 to 18 ins.	.....	40.00	350.00
Fagus sylvatica, 4-yr., TT, FR, 2 to 3 ft.	.....	50.00	450.00
Ginkgo biloba, 1-yr. seedlings, 3 to 5 ins.	.....	7.50	70.00
Ilex aquifolium (Eng. Holly), 2-yr., T, beds, staked, 18 to 24 ins.	.....	75.00	650.00
Koeleruteria paniculata, 1-yr. seedlings, 3 to 6 ins.	.....	6.00	50.00
Liquidambar styraciflua, 1-yr. seedlings, 4 to 6 ins.	.....	7.50	65.00
Liquidambar styraciflua, 1-yr. seedlings, 6 to 9 ins.	.....	9.00	80.00
Picea canadensis alba, 4-yr., T, beds, 6 to 9 ins.	.....	20.00	150.00
Pieris japonica, 1-yr., T, beds 15.00	.....	100.00	
Pieris japonica, 2-yr., T, beds 35.00	.....	300.00	
Pieris japonica, 3-yr., T, beds 45.00	.....	400.00	
Pieris japonica, PINK, 3-yr., T, beds	.....	55.00	500.00
Quercus palustris, 1-yr. seedlings, 6 to 9 ins.	.....	6.00	50.00
Quercus palustris, 1-yr. seedlings, 9 to 15 ins.	.....	9.50	80.00
Quercus palustris, 2-yr., T, FR, 12 to 18 ins.	.....	20.00	150.00
Quercus palustris, 3-yr., TT, FR, 2 to 3 ft.	.....	40.00	350.00
Quercus palustris, 3-yr., TT, FR, 3 to 4 ft.	.....	50.00	450.00
Taxus brevifolia, 2-yr., T, beds 30.00	.....	250.00	
Taxus brevifolia, 3-yr., T, beds 45.00	.....	400.00	
Taxus cusp., upright, seedlings, 2-yr. (over 5000, \$70.00 per 1000)	.....	10.00	90.00
Taxus cusp., upright, seedlings, 3-yr.	.....	15.00	120.00
Taxus cusp., upright, 3-yr., T, beds	.....	20.00	150.00
Taxus cusp., upright, 4-yr., TT, beds	.....	30.00	250.00
Taxus densiformis, 3-yr., T, beds	.....	45.00	400.00
Taxus densiformis, 4-yr., TT, FR, 6 to 9 ins. heavy	.....	60.00	550.00
Taxus hatfieldi, 2-yr., T, beds 45.00	.....	400.00	
Taxus hatfieldi, 3-yr., TT, FR, 6 to 9 ins. heavy	.....	60.00	550.00
Tilia cordata, 1-yr. seedlings, 4 to 6 ins.	.....	6.00	50.00
Tilia cordata, 3-yr., T, FR, 2 to 3 ft.	.....	35.00	300.00
Tilia cordata, 3-yr., T, FR, 3 to 4 ft.	.....	50.00	450.00
Zelkova serrata, 1-yr. seedlings, 6 to 9 ins.	.....	4.50	40.00
Zelkova serrata, 1-yr. seedlings, 9 to 12 ins.	.....	5.50	50.00
Zelkova serrata, 2-yr., T, FR, 15 to 18 ins.	.....	18.00	150.00
(Substitute for American Elm, not subject to Dutch Elm disease.)			
T—once transplanted; TT—twice transplanted; FR—field row.			

BOULEVARD NURSERIES, INC.

Newport, R. I.

Phone VI 6-1263

LINING-OUT STOCK

For immediate delivery or for reservation. All plants from 2 1/2-in. pots, grown in open beds, under field conditions and ready for field planting.

	Each	lots 100	1000
Ilex cren. rotundifolia, 10 to 12 ins.	\$0.12	\$0.10	
Ilex cren. rotundifolia, 8 to 10 ins.	.10	.08	
Ilex cren. bullata convexa, 6 to 8 ins.	.12	.10	
Ilex opaca howardi, 6 to 8 ins.	.14	.12	
Buxus harlandi, 4 to 6 ins.	.10	.08	
Buxus japonica, 4 to 6 ins.	.10	.08	
Ilex cren. microphylla, 4 to 6 ins.	.12	.10	
Mahonia bealei, 10 to 12 ins.	.14	.12	
Weeping Privet, 10 to 12 ins.	.12	.10	
Euonymus radicans, 8 to 10 ins.	.08	.06	

Our stock guaranteed 100 per cent satisfactory or return for full refund.

TERMS: Packing without cost, 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike

Germantown, Tenn.

STRONG LINING-OUT STOCK

50,000 Ilex rotundifolia, 3 to 4 ins.	.....	3c
20,000 Ligustrum lucidum, 3 ins.	.....	2 1/2 c

E. F. DuBOISE NURSERY

Huntsville, Ala.

AZALEAS, HEAVY 2-YR. TRANSPLANTS

Brilliant, Daphne Salmon, Formosa, Ivoryana, Judge Solomon, Pres. Clay, Pride of Mobile, Southern Charm, V. C. Rubra, amoena, Double Macrantha, Judd, kaempferi, kosteri, Pink Macrantha, sherwoodi; Bridesmaid, Coral Bells, Eleanor Allen, Hampton Beauty, Hino-Crimson, hindogirli, Vesuvius, Mme. Fricat, Mrs. Fischer, Pink Pericat, Twenty Grand.

\$15.00 per 100, \$125.00 per 1000.
CAMELLIAS, vigorous 3-in. plastic pot-grown liners in most popular varieties. Ready to be moved up to can or field.

\$30.00 per 100, \$250.00 per 1000.
MAGNOLIAS, 2-yr., bed-grown, heavy roots.

Alba superba, alexandrina, liliflora, Lilliputian, nigra, pink alba superba, rustica rubra, soulangeana.

Per 100 Per 1000

12 to 18 ins. \$35.00 \$300.00

18 to 24 ins. 40.00 350.00

ORNAMENTALS

Per 100

Buxus, harlandi, japonica, 4 to 6 ins. \$12.50

Cleyera japonica, 6 to 8 ins. 15.00

8 to 12 ins. 17.50

Fatsia japonica, 3-in. pot. 15.00

Gardenias, August Beauty, Florida, fortunei, Mystery.

8 to 12 ins. 12.50

12 to 18 ins. 15.00

Gardenia radicans, 4 to 6 ins. 12.50

6 to 8 ins. 15.00

Ilex vomitoria, 8 to 12 ins. 12.50

12 to 18 ins. 15.00

Ilex vomitoria nana, 6 to 8 ins. 17.50

8 to 12 ins. 20.00

Ilex, bullata, microphylla, repandum, 6 to 8 ins. 17.50

8 to 12 ins. 20.00

Ilex rotundifolia, 6 to 8 ins. 15.00

8 to 12 ins. 17.50

Ilex cornuta burfordi, femina, 3-in. pot. 17.50

Laurus officinalis, 6 to 8 ins. 10.00

8 to 12 ins. 12.50

Liriodendron, green, clumps 20.00

Loropetalum, 6 to 8 ins. 12.50

8 to 12 ins. 15.00

Lonicera yunnanensis, 3-in. pot. 10.00

Ligustrum, Iwata, lucidum, pyramidal, repandum, texanum, 6 to 8 ins. 10.00

8 to 12 ins. 12.50

12 to 18 ins. 15.00

Magnolia grandiflora, 6 to 8 ins. 12.50

8 to 12 ins. 15.00

12 to 18 ins. 20.00

18 to 24 ins. 25.00

Podocarpus sinensis, 6 to 8 ins. 8.50

8 to 12 ins. 17.50

Pyracantha, formosana, graberi, 3-in. pot. 15.00

Serissa foetida, 8 to 12 ins. 12.50

Viburnum odoratissimum, 6 to 8 ins. 12.50

8 to 12 ins. 15.00

12 to 18 ins. 17.50

SASANQUA (Camellias), Annette, Chojiguruma, Cinderella, Cleopatra, Day Dream, Hino-de-gumo, Mine-no-yuki, Oleifera, Pink Snow, Rosea, Papavera, Setsugekka, Shishifukujin, Texas Star, 6 to 8 ins. 15.00

8 to 12 ins. 17.50

SEMMES NURSERIES, INC.

Semmes, Ala.

ROOTED CUTTINGS

Berekmans' Arborvitae

Chamaecyparis allumi

Blue Lawson

Retinispora crispi

Retinispora ericoides

Baker's Arborvitae

Podocarpus

Green Pittosporum

Ilex East Palatka

Photinia serrulata

Photinia glabra

Hetz Juniper

10 100 1000

3 to 5 ins., rooted cuttings \$1.00 \$6.00 \$50.00

Pfitzer Juniper Photinia glabra

Var. Pittosporum

10 100 1000

4 to 6 ins. \$1.50 \$8.00 \$75.00

Dwarf Euonymus Viburnum suspensum

Buxus japonica

Ilex rotundifolia

Gardenia fortunei

10 100 1000

4 to 6 ins. \$1.00 \$6.00 \$50.00

3 to 5 ins., rooted cuttings .75 5.00 40.00

Viburnum odorat. Buxus japonica

Photinia serrulata Baker's Arborvitae

Ilex burfordi Ilex East Palatka

6 to 8 ins. 10 100 1000

Podocarpus Photinia glabra

Ilex rotundifolia Gardenia fortunei

Gardenia radicans Ilex bullata

6 to 8 ins. 10 100 1000

8 to 12 ins. \$2.00 \$12.50 \$100.00

12 to 18 ins. 2.50 15.00 125.00

FLOWERWOOD NURSERY

P. O. Box 206 Calro, Ga.

LINING-OUT STOCK

All plants bare-root except where noted. Average Evergreens, 6 to 8 ins. or better. Shrubs, etc., 8 to 10 ins. or better. Best roots in the business. We ship all 12 months.

EVERGREENS

Andorra Juniper	.....	\$0.05
Armstrong Pfitzer Juniper	.....	.10
Blue Hetz Juniper	.....	.10
Burk Juniper (upright tree), no competition can touch you on Burk	.....	.12
Hillbush Juniper (virginialis)	.....	.12
Pfitzer Juniper	.....	.07
Savin Juniper	.....	.06
Taxus cuspidata	.....	.10
Von Ehron Juniper	.....	.10
Gold Tip Pfitzer Juniper	.....	.10
Compact Pfitzer Juniper (dwarf Pfitzer, bands)	.....	.10

DECIDUOUS

Deutzia gracilis, 5 to 6 ins.	.....	.05
Forsythia Arnold's Brilliant	.....	.05
Forsythia Arnold's Dwarf	.....	.05
Forsythia Arnold's Giant	.....	.05
Forsythia nana compacta	.....	.04
Blue Spiraea (Caryopteris)	.....	.05
Hypericum Hidcote	.....	.05
Hypericum kalmianum, dwarf, hardy, pretty. Should sell	.....	.05
Honeyuckle, Zabel Bush	.....	.04
Honeyuckle, heckrotti. Vine, evbl.	.....	.04
Privet, Lodense	.....	.04
Privet, Regels	.....	.04
Privet, Chinese, Wayside Garden's strain	.....	.04
Spiraea macrothyra, evbl. pink plumes	.....	.05
Spiraea Anthony Waterer	.....	.10
Viburnum op. stierii (Snowball)	.....	.10

BROADLEAFS

Euonymus carrierei	.....	.04
Euonymus coloratus	.....	.04
Euonymus patens Flagpole (small leaf)	.....	.04
patens, large leaf	.....	.04
patens Newport (medium leaf)	.....	.04
patens Owen (small leaf)	.....	.04
radicans erectus (small leaf)	.....	.04
patens Rosehill (medium leaf)	.....	.04
Honeyuckle, Purple Leaf (Texas)	.....	.04
Vine. Fine for cans and planters	.....	.04
Pyracantha Kasan, a heavy berried	.....	.05
lalandi, Hardier	.....	.05
Pyracantha lalandi	.....	.05
Pyracantha pauciflora, cans and planters	.....	.05

PERENNIALS

Phlox subulata Scarlet Flame, newest variety and most brilliant color	.....	.04
Emerald Pink	.....	.04
Teucrium chamaedrys	.....	.04
Less than 200 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.	.....

MCININCH GREENHOUSES

St. Joseph, Mo.

LINING-OUT STOCK

	100	1000
Bedded 1-yr. in the open	100	1000
Ilex convexa	\$20.00	\$180.00
Ilex rotundifolia	20.00	180.00
Ilex hetzi	20.00	180.00
Juniperus pfitzeriana	20.00	180.00
Juniperus hetzi	20.00	180.00
Taxus andersoni	20.00	175.00
Taxus brevifolia	20.00	175.00
Taxus capitata, cutting-grown	25.00	225.00
Taxus capitata, Adams, cutting-grown	25.00	225.00
Taxus canadensis stricta	10.00	150.00
Taxus cuspidata	17.50	150.00
Taxus hatfieldi	17.50	150.00
Taxus hunnewelliana	17.50	150.00
Taxus hicksi	17.50	150.00
Taxus intermedia	17.50	150.00
Taxus henryi	20.00	175.00
Taxus densiformis	20.00	175.00
Taxus veruculeni	17.50	150.00
Taxus wari	17.50	150.00
Taxus Moon's columnaris	20.00	175.00
Taxus browni	17.50	150.00

2-yr. bedded in the open.

Ilex convexa, 6 to 9 ins.	.....	\$25.00	\$200.00
Ilex rotundifolia, 6 to 9 ins.	.....	25.00	200.00
Ilex hetzi, 4 to 9 ins.	.....	25.00	200.00
Taxus Adams col., 12 to 18 ins.	.....	50.00	450.00
Taxus Moon's col., 8 to 12 ins.	.....	30.00	250.00
Taxus cuspidata, 6 to 9 ins.	.....	30.00	250.00
Taxus hatfieldi, 6 to 9 ins.	.....	30.00	250.00
Taxus cuspidata comp., 6 to 9 ins.	.....	30.00	250.00
Taxus hunnewelliana, 6 to 9 ins.	.....	30.00	250.00
Taxus browni, 6 to 9 ins.	.....	30.00	250.00
Taxus intermedia, 6 to 9 ins.	.....	30.00	250.00

TAXUS CAPITATA, SEEDLING-GROWN

	100	1000	10,000
1-yr. seedlings	\$ 6.00	\$ 50.00	\$ 450.00
2-yr. seedlings	10.00	90.00	750.00
3-yr. seedlings	17.50	150.00	1250.00
4-yr. seedlings, transplanted, 6 to 10 ins.	30.00	250.00	2250.00

CORNUS FLORIDA (WHITE DOGWOOD)

	100	1000	10,000
1-yr., No. 1 grade	\$ 6.00	\$ 50.00	\$ 450.00
1-yr., No. 2 grade	5.00	40.00	350.00
1-yr., No. 3 grade	4.00	30.00	250.00
2-yr., No. 1 grade	12.50	100.00	900.00
2-yr., No. 2 grade	10.00	90.00	750.00

Special prices on large quantities.

Full list

POT-GROWN GRAFTS, MAY SHIPMENT

	Per 100
Acer palmatum atropurpureum	75.00
Acer pal. at. Bloodgood	75.00
Acer dissectum	75.00
Acer dissectum atropurpureum	75.00
Abies nobilis glauca	100.00
Abies nordmanniana	100.00
Biota aurea nana	50.00
Cedrus atlantica glauca	100.00
Cedrus atlantica aurea	100.00
Cedrus deodara pendula	100.00
Carpinus betulus fastigiata	60.00
Cornus florida rubra	50.00
Cornus florida rubra Prosser	65.00
Cornus florida pendula	60.00
Cornus florida welchii var.	65.00
Cornus florida flore-plena	60.00
Cornus kousa chinensis	60.00
Cornus kousa speciosa	60.00
Fagus sylvatica riversi	60.00
Fagus sylvatica purp. pendula	75.00
Fagus sylvatica pendula	60.00
Fagus sylvatica Tricolor	60.00
Fagus sylvatica heterophylla	60.00
Fagus sylvatica fastigiata	60.00
Hamamelis mollis	50.00
Hamamelis brevipedata	75.00
Picea pung. glauca moehelii	100.00
Picea pung. glauca hoopsii	125.00
Picea pung. glauca pendula	100.00
Picea pung. pendula	100.00
Picea excelsa pendula	100.00
Picea excelsa nudiformis	100.00
Picea excelsa remontii	100.00
Picea excelsa gregoryana	100.00
Picea excelsa inversa pendula	100.00
Pinus cambria	60.00
Pinus watereri glauca	60.00
Pinus strobus nana	60.00
Pinus strobus fastigiata	60.00
Pinus strobus pendula	60.00
Pinus parviflora glauca	60.00
Pinus, Tanyosho	60.00

VERKADE'S NURSERIES, INC.
Wayne, N. J.

ROOTED CUTTINGS

	Per 100
Taxus browni, 7 to 8 ins.	10.00
cuspidata, 7 to 8 ins.	7.00
densiformis, 7 to 8 ins.	10.00
hunnelliana, 7 to 8 ins.	9.00
hicksii, 7 to 8 ins.	8.00
hatfieldi, 6 to 8 ins.	9.00
intermedia, 6 to 8 ins.	9.00
cuspidata cap. tips, 7 to 8 ins.	12.00
Thuja boothii, 6 to 8 ins.	8.00
hoveyi, 6 to 8 ins.	8.00
nigra (Am., dark green), 6 to 8 ins.	8.00
pyramidalis, 6 to 8 ins.	8.00
spiralis, 6 to 8 ins.	10.00
wardii globe, 4 to 6 ins.	8.00
Ilex convexa, 4 to 6 ins.	6.00
convexa hetzi, 4 to 6 ins.	6.00
latifolia, upright, 6 to 8 ins.	10.00
rotundifolia, 4 to 6 ins.	6.00
Buxus sempervirens, 6 to 8 ins.	7.00
Juniper, Andorra, 7 to 8 ins.	8.00
Juniperus glauca hetzi, 7 to 8 ins.	8.00
pfitzeriana, 7 to 8 ins.	9.00
sabina, 7 to 8 ins.	8.00
Juniperus suecica, 6 to 8 ins.	10.00
tamariscifolia, 6 to 8 ins.	10.00
Rooted summer 1960, outside frames.	
Eucynymus vegetus	5.00
alatus compactus	7.00
carrierei	6.00
Deutzia gracilis	8.00
Deutzia lemoinei	8.00
Viburnum tomentosum	10.00
Pyracantha lalandi	6.00
2 per cent, and free packing, for cash with order.	

LINCOLN NURSERIES

Grand Rapids 4, Mich.

L. L. GROWN LINING-OUT STOCK	
2-yr. old, lath-grown and sheared	100
1500 Taxus thayerae cusp., 8 to 10 ins.	35.00
1500 Taxus hicksii, 8 to 10 ins.	35.00
500 Taxus capitata, 10 ins.	40.00
2000 Taxus intermedia cusp., 8 to 10 ins.	35.00
3800 Hetz Juniper, 10 to 12 ins.	35.00
1000 Ilex convexa bullata, 9 to 10 ins.	40.00
2000 Ilex crenata, 10 to 12 ins.	40.00
2000 Hybrid Rhododendrons	\$2.00 each
400 Ilex opaca	.75 each
4-YR.-OLD, FIELD-GROWN YEW	
2000 Taxus densiformis	.60c
1000 Taxus capitata	.75c
1000 Taxus thayerae	.60c
1000 Taxus Kerschbamer	.60c
Pachysandras and English Ivy in flats.	

BRAND'S NURSERY

912 Park Ave. Huntington, L. I., N. Y.
Phone Hamilton 3-2456

LINERS FROM FIELD BEDS	
	Per 100
Taxus, browni, 1-yr., T, 6 to 8 ins.	\$17.50
browni, 2-yr., T, 8 to 10 ins.	25.00
browni, 3-yr., T, 8 to 12 ins.	35.00
hatfieldi, 1-yr., T, 6 to 8 ins.	17.50
hatfieldi, 2-yr., T, 8 to 10 ins.	25.00
hatfieldi, 3-yr., T, 10 to 12 ins.	35.00
hatfieldi, 4-yr., TT, 10 to 14 ins. lvy.	25.00
kelseyi, upr., 2-yr., TT, 8 to 10 ins.	25.00
Ilex opaca, vars., 3-yr., Merry Christmas, male, 3-in. pots, 6 to 10 ins.	35.00
3 to 4-in. pots, 12 to 18 ins.	75.00
Zelkova serrata, 2-yr. sdgs., 15 to 24.	20.00

BLAKE'S NURSERY

P. O. Box 93 Saddle River, N. J.

LINING-OUT STOCK

	EACH	100	1000
Acer palmatum atropurpureum			
OSSI BENI, atrop. 2-yr. grafts	\$1.50		
Cornus elegantissima, 1-yr. T.	.15		
florida rubra, 2-yr. grafts	.50	\$0.75	
Cotoneaster divaricata, 1-yr. seedlings, 6 to 10 ins.	.10	.09	
Eucynymus alatus compactus			
2-yr. T, 6 to 12 ins.	.30	.25	
3-yr. T, 12 to 18 ins., branched, suitable for mail order	.45	.40	
Laburnum vulgare			
1-yr. seedlings	.15	.12½	
Magnolia soulangeana	.50	.45	
1-yr. T, cuttings	.75		
2-yr. T, cuttings	.25	.20	
Picea pungens glauca, 4-yr. T.	1.25	1.00	
Rhododendron wilsoni, 2-yr. T.			
Rhus cotinus ROYAL PURPLE			
1-yr. grafts, bedded	.75	.60	
Thuja nigra, 2-yr. T.	.40	.35	
orientalis aurea nana, strong			
2-yr. T, cuttings	.50	.45	
Viburnum carlesii, 2-yr. seedlings, 4 to 6 ins.	.15	.12½	
3-yr. seedlings, 12 to 18 ins.	.40	.35	
setigerum, 1-yr., seedlings, 8 to 12 ins.	.12	.10	
wrightii, 2-yr. seedlings, 15 to 18 ins.	.15	.12	
Weigela vaniciei, 1-yr., SW, cuttings	.25	.20	
WHERE QUALITY EXCELS. No charge for packing.			

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

ROOTED CUTTINGS

Most of these cuttings were rooted last winter and have been heeled-in outside since then. Immediate delivery.	
Ilex crenata	.5c each
Ilex Willowae	.5c each
Juniper, Andorra	.6c each
Juniper, hetzi glauca	.6c each
Juniper, spreading (good)	.5c each
Taxus andersonii	.7c each
Taxus cuspidata	.7c each
Taxus E No. 1 (good)	.7c each
Taxus Halloran	.7c each
Taxus hatfieldi	.7c each
Taxus kelseyi	.7c each
Taxus T-31	.7c each
Taxus uprights (mixed)	.6c each
Taxus bacata, 6 to 8, X	\$2.00
Taxus browni, 6 to 8, X	\$2.00
Taxus cuspidata, 8 to 10, X	27.00
Taxus E No. 1 (GOOD), 8 to 10, X	27.00
Taxus Halloran, 6 to 8, X	22.00
Taxus hatfieldi, 8 to 10, X	27.00
Taxus hicksii, 6 to 8, X	22.00
Taxus Jeffersoni, 6 to 8, X	22.00
Taxus kelseyi, 6 to 8, X	22.00
Taxus T-31, 6 to 8, X	22.00
Taxus T-33, 8 to 10, X	27.00
Free packing. Write for complete list.	

ESHAM'S NURSERIES

Millsboro, Del.

HEAVY 3-YR. TRANSPLANTS, SHEARED

Taxus browni, 10 to 12 ins.	
Taxus cuspidata, 10 to 12 ins.	
Taxus densiformis, 10 to 12 ins.	
Taxus Halloran, 10 to 12 ins.	
Taxus henryi, 10 to 12 ins.	
Taxus hicksii, 10 to 12 ins.	
Taxus Moon's columnaris, 10 to 12 ins.	
Taxus Seban intermedia, 10 to 12 ins.	
Taxus hunnelliana, 10 to 12 ins.	
Taxus thayerae, 10 to 12 ins.	
Taxus wardi, 10 to 12 ins.	
Taxus capitata, 3-yr. seedlings, 6 to 9 ins.	
Thuja occidentalis, 3-yr. transp., 8 to 10 ins., heavy	
Picea excelsa, selected understocks, transp.	
Samples upon receipt of postage.	
VERKADE'S NURSERIES	
New London, Conn.	

QUALITY LINERS

	Per 100
Mugho Pine (dwarf), 3 to 5 ins., tr.	\$15.00
White Pine, 6 to 14 ins., tr.	15.00
Douglas Fir (blue), 5 to 10 ins., tr.	15.00
Colorado Blue Spruce, 5 to 10 ins., tr.	17.50
Koeleruteria pan., 12 to 15 ins., tr.	20.00
Canadian Hemlock, 5 to 12 ins., tr.	20.00
Cornus kousa (rare), 12 to 24 ins., tr.	20.00
Enkianthus camp., 8 to 12 ins., tr.	22.50
Viburnum carlesii, 12 to 15 ins.	22.50
Styrax japonica, 18 to 24 ins.	25.00
Leucothoe cal., 4 to 8 ins., tr.	25.00
Fr. Hybrid Lilacs (best var.), 1-yr.	35.00
Pink Fig. Dogwood, 12 to 18 ins., tr.	60.00
Pink Fig. Dogwood, 18 to 24 ins., tr.	75.00
Send for new spring list.	
POSSUM HOLLOW NURSERIES	
6909 Henley St. Philadelphia 19, Pa.	

LINING-OUT STOCK

	Per 100
Ilex convexa, 3-yr., TT, 12 to 15 ins.	\$25.00
Ilex convexa, 1-yr. T.	12.50
Pfitzer Juniper (compact), 2-yr. T, 8 to 10 ins.	25.00
Ilex rotundifolia, 15 to 18 ins.	
B&B, heavy	each, 2.00
Free samples on request.	
GREEN RIDGE NURSERY	
Cor. Lorain and Island Rds.	
North Ridgeville, O.	

FIELD-BED LINERS, EXTRA HEAVY

Take 10 per cent discount on 2000 plant orders. Write for complete list.	
Arboretum, Woodward globe,	
3-yr., 6 to 10 ins.	\$25.00
Pieris japonica, 2-yr., 8 to 10 ins.	27.50
Taxus cuspidata, 3-yr., 8 to 10 ins.	30.00
Taxus cuspidata, 4-yr., 12 to 18 ins.	50.00
Taxus nana grandifolia, 1-yr., rooted cuttings	12.00
Taxus nana grandifolia, 3-yr., 12 to 15 ins.	37.50
Taxus media hicksii, 3-yr., 8 to 12 ins.	30.00
Taxus media Vermeulen, 3-yr., 10 to 12 ins.	32.00

SUSSEX NURSERY

Bridgeville, Del.

HEAVY LINERS FOR SPRING

	Each
Azalea mollis	\$0.25
1-yr., TT	.35
2-yr., TT, br.	.75
3-yr., TT, potting grade, budded	.75
Leucothoe catesbaei	
7 to 12 ins.	.45
Pieris floribunda	
9 to 15 ins., budded	.75
Pieris japonica	
6 to 12 ins.	.45
12 to 15 ins.	.75
Rhododendron hybrid seedlings	
9 to 15 ins.	.15
Ilex hetzi	
9 to 15 ins.	.45

DUGAN NURSERIES, INC.

Center St. Perry, O.

LINING-OUT STOCK

	100	1000
POTTED LINERS		
Irish Juniper, 2½-in. pots	\$0.22	\$0.20
Magnolia grand., 2½-in. pots	.22	.20
Magnolia grand., 3-in. pots	.30	.28
Nandina domestica, 2½-in. pots	.22	.20
Taxus cuspidata, 3-in. pots	.28	.25
Taxus densiformis, 3-in. pots	.28	.25
Taxus wardi, 3-in. pots	.28	.25
Taxus hicksii, 3-in. pots	.28	.25
Viburnum burkwoodii, 2½-in. pots	.22	.20
SEEDLINGS		
Green Ash, prices and sizes on request		
Redbud		
DONALD J. HILLENMEYER		
313 Holliday Rd. Lexington, Ky.		

LINING-OUT STOCK

SEE OUR DISPLAY AD IN THIS ISSUE ON PAGE 18.	
CARTWRIGHT NURSERIES	
Colliersville, Tenn.	

LINING-OUT STOCK

Best varieties. Top quality. Novelty and RARE collectors' item.	
Chamaecyparis, Junipers, Holly, Cotoneasters, Spruce.	
Send your want list, will quote price.	
JOE CESARINI	
409 Larkfield Rd. East Northport, N. Y.	
Phone Forest 8-0290	
100,000 FIELD-GROWN LINERS	
Canada Hemlock, 5-yr., heavy rooted, TT, \$15.00 per 100, \$100.00 per 1000.	
Hardway Spruce, 4-yr., TT, \$8.00 per 100 \$50.00 per 1000.	
Hard Sugar Maple, 3 to 4 ft., \$25.00 per 100.	
Free packing on liners.	
KANEFF'S NURSERIES	
Glendale Rd. Marietta, O.	

BETTER BUSINESS WITH FINER LINERS

A "Better Business" starts with "FINER LINERS." Quality is high, prices are right, packing is free, discounts are liberal. List on request. See our ad, page 47, April 1.	
JOHN VERMEULEN & SON, INC.	
P. O. Box 336A Neshanic Station, N. J.	

Check Your Stock NOW!

If you have a surplus sell it through the American Nurseryman Classified Ads.	
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MAGNOLIAS

MAGNOLIA GRANDIFLORA	
	2½-in. pots
8 to 10 ins.	12c
10 to 16 ins.	16c
16 to 20 ins.	18c
Qt. cans	
12 to 16 ins.	20c
20 to 30 ins.	25c
30 to 36 ins.	30c
B&B stock	
2 to 3 ft.	\$1.50
3 to 4 ft.	2.00
4 to 5 ft.	3.00
5 to 6 ft.	4.00
6 to 7 ft.	5.25
7 to 8 ft.	6.75

The above liners were grown in the open and are hardy. The B&B stock will be wrapped in rot-proof burlap and string if so desired. Plants root pruned.

BIG RIVER NURSERY, DUNDEE, MISS.
Phone 672-R4, Tunica, Miss.

MAGNOLIAS—Continued

MAGNOLIAS
100 Star, 3 to 5 ft.; 100 alexandrina and
100 soulangeana, 5 to 6 ft., bushy.
CARL HUBBELL
Northumberland, Pa.

NEW ROYAL STAR HARDY MAGNOLIA
See our ad, page 40, April 15 issue.
JOHN VERMEULEN & SONS
Neshanic Station, N. J.

MAPLES

MAPLES
COLLECTED ACER
RUBRUM AND SACCHARUM
from whips to 4-in. caliper.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

MYRTLE

HARDY MYRTLE
(Vinca minor)
20 to 30 leads, \$8.00 per 100, \$50.00 per
1000; 2500 and up, \$45.00 per 1000.
Euonymus coloratus, heavy rooted cut-
tings, \$6.00 per 100, \$50.00 per 1000.
English Ivy, rooted cuttings, \$6.00 per
100, \$50.00 per 1000.
VAUGHAN'S NURSERY
R. R. 2, 15910 Cleveland Rd., Granger, Ind.
Phone So. Bend, CE 3-3318

PACHYSANDRAS

800,000 PACHYSANDRAS
Hand-selected, field-grown cuttings.
\$35.00 per 1000.

Free packing, check with order.

MARTIN VIETTE NURSERIES
Route 25-A, East Norwich, L. I., N. Y.
Phones, WE 1-2372 or PE 1-6255

200,000 PACHYSANDRAS
Strong rooted cuttings from July, 1960.
Ready now for spring delivery.
\$38.00 per 1000.

\$35.00 per 1000, lots of 5000 or more.
Check with order. Prompt shipment.
Write for free sample.

TOWN & COUNTRY NURSERY
4202 Fordleigh Rd., Baltimore 15, Md.

PACHYSANDRAS
Shipped now or reserved for you.
Foliage fed. Greenhouse grown.
Rooted in clean, white, silica sand.
\$35.00 per 1000.

THE JOSEPH F. MARTIN CO.
Painesville, O.

PACHYSANDRAS
1-yr.-old, frame-grown, well-rooted cut-
tings, \$5.50 per 100, \$43.00 per 1000; \$40.00
per 1000 for 5000 or more. Order now for
immediate delivery.

RUSSELL GUTHRIE
123 Franklin St., Tarrytown, N. Y.

PACHYSANDRA TERMINALIS
Per 100 Per 1000
1-yr., field-grown \$ 5.00 \$ 45.00
3000 or more plants 42.50
2 1/4-in., pot-grown 11.50 105.00
HANSEN BROS. NURSERIES, INC.
Narberth, Pa.

PACHYSANDRAS
Strong rooted cuttings, \$4.25 per 100,
\$40.00 per 1000. No C.O.D. orders.
DUNWOODIE NURSERIES
6 Smart Ave., Yonkers, N. Y.

Pachysandras, strong plants, grown in soil
frames with light shade. First-class stock,
\$6.50 per 100, \$53.00 per 1000; \$50.00 per
1000 for 5000 or more, including good pack-
ing. Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRA TERMINALIS
1-yr., field-grown, \$60.00 per 1000.
HILLCREST GREENHOUSES
Miller Park, Franklin, Pa.

PEONIES

PEONIES
Adolphe Rousseau, Baroness Schroeder,
Duchesse de Nemours, Festiva Maxima, Sar-
ah Bernhard, Lady Alex. Duff, Marie Le-
moine, Mons. Jules Elle, Reine Hortense.
3-yr.-old, whole clumps, not divided, 6
eyes and up, \$75.00 per 100, \$700.00 per 1000;
divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00
per 1000.
VERKADE'S NURSERIES, WAYNE, N. J.

APRIL TREE PEONY SPECIAL
Grafted Tree Peonies, red, white, purple,
pink, assorted; 2-yr., \$13.50 per 10. In
APRIL, a yellow Tree Peony FREE with
purchase of 10 others. Yellow Tree Peonies,
\$20.00 per 10. Free general Peony list.
ATHA GARDENS, WEST LIBERTY 6, O.

PHLOX

PHLOX SUBULATA
(Creeping Phlox)
Admiration, cameo-pink with white eye
Alba, an excellent pure white
Astro, deep orchid-rose
Atropurpurea, rich wine-red
Blue Hills, attractive medium blue
Butterfly, lilac bluish, showy purple eye
Crimson Beauty, brilliant cyclamen-red
Dixie Brilliant, large red, slow grower
Red Wing, finest large flowering red
Sensation, bright pink with red eye
Transplants, \$3.50 per 100, \$30.00 per 1000.
Liners, \$5.00 per 100, \$45.00 per 1000.
250 or more of same variety at 1000 rate.
Prices are prepaid, we pay transportation.
Terms: Cash with order.
TANGLEWOOD FARM
P. O. Box 336-N Ph. 833-2588 Clinton, S. C.

PHLOX SUBULATA
Our field-grown creeping Phlox have
proved to be money-makers for thousands of
happy customers throughout the nation. 20
varieties available, at \$14.00 per 100, 250 or
more of 1 variety at 12c per plant. Write for
our new colorful wholesale catalog today.
WALTERS GARDENS
R. R. 2, Zeeland, Mich.

CREeping PHLOX (SUBULATA)
and **TALL HARDY PHLOX**
Well-developed, field-grown, best varieties.
Also 500 other popular perennials.
Available any time
for your best use and profit.
WELLER NURSERIES CO.
P. O. Box 1111, Holland, Mich.

PHLOX, UPRIGHT AND SUBULATA
Excellent plants for spring 1961. 32 varie-
ties of upright Phlox and 9 varieties of subu-
lata Phlox. All sand-grown.
Write now for list.
RICHARDS GARDENS
Box AN, Plainwell, Mich.

Phlox subulata (Creeping Thrift), beauti-
ful evergreen ground cover; large, field-
grown plants, beginning to bud, bright red,
pure white, rose-pink and blue, \$8.00 per
100, \$60.00 per 1000. Prompt shipment.
Tidwell Nurseries, Greenville, Ga.

HARDY PHLOX
See March 1 issue or write for our choice
list of strong, heavy-rooted, sandy-soil, field-
grown, summer-blooming Phlox.
FLOR-ACRES, BRIDGMAN, MICH.

Classified Ads Offer Maximum
Results at Minimum Cost.

PIERIS

ANDROMEDA
(Pieris japonica)
One of the most beautiful broad-leaved
Evergreens.

Per 100 Per 1000
1 to 2 ins. \$ 6.00 \$ 60.00
2 to 3 ins. 8.00 75.00
4 to 6 ins. 15.00 140.00
6 to 8 ins. 20.00 190.00
300 at 1000 rate. Shipped prepaid to your
nursery.

PLANE VIEW NURSERY
1355 W. Main Rd., Rt. 114 Newport, R. I.

PIERIS JAPONICA (ANDROMEDA)
Landscape size, F.O.B.
Each, 100 1000
15 to 18 ins., B&B \$2.25 \$20.00
18 to 24 ins., B&B 2.75 25.00
2 to 2 1/2 ft., B&B 3.25 30.00
MENDONCA NURSERIES
935 East Main Rd., Middletown, R. I.

For \$4.00

you can offer that surplus in a
classified ad of 10 lines on these
pages—quickly and easily turning
stock into cash.

At 40c PER LINE

you can keep a list of specialty
items before trade buyers through
the selling season at small cost.

Send your copy (count 6 aver-
age words to line) for the May
1 issue to reach us April 14.

Forms for the May 15 issue will
close April 28.

AMERICAN NURSERYMAN

343 S. Dearborn St., CHICAGO 4, ILL.

AMERICAN NURSERYMAN

JAPONICA, SPECIES, NEW SELECTIONS
Floribunda, seedlings and transplants. List
on request.

JOHN VERMEULEN & SON, INC.
P. O. Box 336A Neshanic Station, N. J.

PRIVET

IBOLIMUM PRIVET, HEAVY 2-YR.
Ohio-grown, cut back and well-branched.
Dormant from storage

Per 100 Per 1000
18 to 24 ins. \$15.00 \$125.00
2 to 3 ft. 17.50 160.00
3 to 4 ft., extra heavy 22.50 200.00
All strong landscape grades.
SCARFF'S NURSERY, INC.
New Carlisle, O.

GENUINE AMUR RIVER NORTH PRIVET
2-YR., 9 to 12 ins., heavy branches, mostly
3 and 4 cane, \$7.00 per 100, \$50.00 per 1000;
12 to 15 ins., \$9.00 per 100, \$70.00 per 1000;
15 to 18 ins., \$12.00 per 100, \$100.00 per 1000.
Free packing on 1-yr. for orders of 5000
or more. All others packing at cost. We will
not ship 15 to 18 ins., 2-yr. Privet.
PAUL'S NURSERY
R. F. D. 3, Shelby, O.

Thousands of Amur River North Privet.
Per 100 Per 1000
18 to 24 ins. \$3.00 \$25.00
2 to 3 ft. 4.00 30.00
3 to 4 ft. 5.00 40.00
Immediate shipment. Satisfaction guaran-
teed. **Robinson Nursery Co., Greenville, Ga.**

RHODODENDRONS

NAMED HYBRID RHODODENDRONS
Our special offer to budget customers for
extra profits. Named Hybrid Rhododendrons
in many varieties, 1 1/2-yr.-old, well-branched,
pinched twice and grown in lightweight peat
moss. Ready to sell in a bright, green colored
mache container, 6x7 ins., plus full color
pictures attached to all plants. Ask for de-
tails as to price, varieties, etc.
WEST ORBON NURSERY
3550 N. W. Saltzman Rd., Portland 10, Ore.
Growers and shippers of a complete line
of nursery stock.

RHODODENDRON LINERS

Own-root
Well-established transplants
for field bed planting.
May 1 delivery.
In a wide range of varieties,
\$55.00 per 100.
Packing free, cash with order.
Send for new list.
WELLS NURSERY
Box 141, Red Bank, N. J.

SPECIAL OFFER
Hybrid Rhododendron
roseum elegans
Rooted cuttings transplanted into flats
with large sand and peat ball; terminal bud
pinched to ensure branching. Ready now.
\$35.00 per 100, \$300.00 per 1000.

W.M. SCHLUPP
CINNAMON NURSERY
Forkland Rd., Palmyra, N. J.

HYBRID RHODODENDRONS

Excellent quality,
for landscaping and garden centers.
PARMENTER'S NURSERY
Bayport, L. I., N. Y.
Phone Bayport 8-0811.

SEEDS, SEEDLINGS AND TRANSPLANTS
Hybrids and species in \$1.00 packets, flats
and free packing. Ask for list.
JOHN VERMEULEN & SON, INC.
P. O. Box 336A Neshanic Station, N. J.

RHODODENDRONS

Hardy, hybrid seedlings, liners.
Write for prices and sizes.
THE LEVICK NURSERY CO.
R. F. D. 3, Bridgeton, N. J.

Kordus Nursery, Huntington, N. Y., moved
to Cranbury Rd., Jamesburg, N. J. Watch
for our nursery when passing on N. J. Turn-
pike, between exit 8 and 9, opposite Phelps
Dodge Corp. Open for business fall 1961.

ROSEBUSHES

ROSEBUSHES
We grow our own Rosebushes and have
over 120 varieties (patent and standard, OLD
and NEW) to choose from. Our Rosebushes
are grown 2 yrs. in the field under the ex-
pert supervision of one of the world's lead-
ing plant pathologists using the Manzate-
Triton method of disease control. Our Rose-
bushes are clean, healthy and just bursting
with energy. Bare-root BULK Roses are
packed FREE in corrugated Poly-lined
boxes. Please write, wire or telephone for
our new variety and price lists.
MARTIN'S ROSE NURSERY
P. O. Box 155 Phone UL 9-2191 Arp, Tex.

TREE ROSES
No. 1, assorted varieties and colors, \$3.50
each, in 10 lots; \$3.25 each, in 100 lots.
WAYNESBORO NURSERIES
Waynesboro, Va.

EVERBLOOMING MINIATURE ROSES

World's largest selection, over 60 varieties. "Money-makers." See them or write for list. We ship branched own-root, 2 1/2-in. pot size. Recommended for forcing. Per 10 Per 100

RED Spring Hill's choice.....\$4.00 \$35.00
CUPID, nearly black-crimson..... 4.50 40.00
MIDGET (pat. 446), fine rose-red..... 4.50 40.00
MON PETIT, cherry-red..... 4.50 40.00
WAKINGTON RUBY, favorited red..... 4.50 40.00
PRINCE CHARMING, crimson..... 5.00 45.00

PINK, Spring Hill's choice..... 4.00 35.00
BABY BUNTING, cameo-pink..... 5.00 45.00
POMPOUR DE PARIS, pink..... 4.50 40.00
ROULETTI, pink Swiss Alpine..... 4.50 40.00
SIMPLE SIMON, new salmon-pk..... 6.00 55.00
WHITE, Spring Hill's choice..... 4.00 35.00
PIXIE (pat. 408), tiny dbl. white..... 4.50 40.00

WHITE FAIRY, best for forcing..... 4.50 40.00
PRESUMIDA, orange bicolor..... 4.50 40.00
BABY GOLD STAR (pat. 407)..... 6.00 55.00

BIGGER FLOWERING MINIATURES

CAROLYN, sunset orange-red.....\$5.50 \$50.00
CRL-CRI, imported orange..... 6.00 55.00
CORANADINA, imported crimson..... 5.50 50.00
JACKIE, golden yell. to cream..... 4.50 40.00
JULIETTE, vivid crimson..... 4.50 40.00

PINK FAIRY, lovely soft pink..... 4.50 40.00
POLKA DOT, finest pure white..... 4.50 40.00
SPRING SONG, rich rose-pink..... 5.00 45.00
THE MARR, rich rose-pink..... 4.50 40.00

SPRING HILL NURSERIES CO.

300 acres of nursery stock. Visit us! Write!
Dept. AN-F-60 F.O.B. Tipp City, O.

MINIATURE ROSES

Four outstanding varieties. Excellent pot plants and perfectly hardy outdoors. All in 2 1/2 and 3 1/2-in. pots, ready to shift.

Per 10 Per 100
Jackie (yellow).....\$4.00 \$35.00
Pearl of Canada (red)..... 3.50 30.00
Pompon de Paris (pink)..... 3.50 30.00
White Fairy (white)..... 4.00 35.00

Ready for immediate delivery, F.O.B. Galesburg. No charge for packing. Cash with order unless Dun & Bradstreet rated.
BURGESS SEED & PLANT CO.
Wholesale Dept. Galesburg, Mich.

TREE ROSES

Select No. 1 grade standards. Varieties include current A. R. S. winners Duet and Pink Parfait, also Garden Party, Kordes Perfekt, Lavender Girl, Pink Peace as well as latest introduction Suspense and many others.

Our bush Rose crop is finest in a decade. We offer only quality stock at competitive prices. Write for complete list, then Buy the best—Buy Klyn's.

GERARD K. KLYN, INC.
In the heart of famous Lake County
Mentor, O.

THE SEASON'S BEST DEAL

See for yourself

sending for our 1960-61 trade list. WE STILL OFFER YOU A CHOICE OF BARE-ROOT AND PREPACKAGED, PATENT AND STANDARD ROSES.

NEW LONDON ROSES
"The Rose Nursery"
P. O. Box 576 Overton, Tex.

FINEST QUALITY ROSES SINCE 1923
Wide selection of non-patent and patent varieties, grown under a consistent and thorough spray program.

Your choice of BARE-ROOT OR PACKAGED ROSES.
Write for list.

VERMAY NURSERY CO.
Dallas Highway Tyler, Tex.
Dept. 11, Phone LY 4-4432

ROSE STOCK

MULTIFLORA ROSE

For living fence, conservation and budding understock. Hardy northern-grown plants, nematode-free. Our sandy loam produces the finest root system. Our high quality is well known.

Caliper and approximate height Per 1000
2 to 3 mm., 8 to 15 ins.....\$12.50
3 to 5 mm., 12 to 18 ins..... 17.50
5 to 8 mm., 15 to 24 ins..... 22.50
4 to 6 mm., budding understock..... 27.50

Ask for quantity prices. We cut the tops back to about 10 ins., for shipping, unless you state otherwise. Prices are F.O.B. Glen Head. Packing at cost. For less than 1000, add 30 per cent.

BROOKVILLE NURSERIES
Box 53, Northern Blvd., Glen Head, L.I., N.Y.

SEEDS

FOREST TREE SEEDS

Birches, Gray, Sweet, Yellow, Paper, Pines, White, Red, Spruces, White, Black, Mountain Laurel.

Germination tested for positive production. Convincing prices on any size order.
JOSEPH COLARUSSO
R. 2, Box 330 Avoca 2, Pa.

SHORT-LEAVED PINE SEED
(Pinus echinata)
Of excellent purity and germination. Wholesale and retail quantities.
RIGDON'S TREE SEED
1715 W. Arrowhead Dr. Stillwater, Okla.

SEEDS

NEW CROPS NOW READY

Acrocarpus fraxinifolius, oz.....\$ 2.50
Adansonia digitata, oz..... 3.35
Barosma betulina, 100 seeds..... .60
Barosma crenulata, 100 seeds..... .60
Bauhinia galpinii, oz..... 2.25
Bauhinia vahlii, 12 seeds..... 2.50
Bischofia javanica, oz..... 2.50
Cassia alata, 100 seeds..... 1.35
Cycas revoluta, lb..... 2.75
Dion edule, 25 seeds..... 2.00
Eucalyptus cinerea (lb., \$12.00), oz..... 1.25
Eucalyptus ficifolia, oz..... 1.25
Ficus benghalensis, oz..... 2.50
Ficus decora, oz..... 17.75
Ficus infectoria (shade tree), oz..... 4.00
Ficus nemoralis, 1000 seeds..... 4.45
Ficus religiosa, oz..... 2.75
Ficus roxburghii, 1000 seeds..... 5.00
Grevillea robusta, oz..... 1.25
Jacaranda mimosaeifolia, oz..... 1.25
Hakea laurina, 100 seeds..... 2.00
Musa chinensis, 100 seeds..... 4.00
Musa paradisiaca, 100 seeds..... 1.35
Myrtus communis, oz..... 1.35
Peltophorum africanum, oz..... 1.25
Phoenix dactylifera, 1000 seeds..... 2.29
Photinia arbutifolia, oz..... .60
Pittosporum undulatum, lb..... 1.25
Pittosporum viridiflorum, 100 seeds..... 1.00
Raphiophis indica rosea, 1000 seeds..... 2.35
Schotia brachypetala, oz..... 2.35
Strelitzia parvifolia, 25 seeds..... 2.50
Strelitzia reginae royalli, 100 seeds..... 6.00
Trevesia palmata, 1000 seeds..... 7.50
Thevetia nereifolia, 1000 seeds..... 12.00
Yucca aloifolia, 1000 seeds..... 3.50

All seed available in the 35c sample size packet and the \$1.25 trade size. New listings now ready for plants and for numerous rare seeds.

CENTRAL NURSERY CO.

2675 Johnson Ave. San Luis Obispo, Calif.

SHRUBS AND TREES

ROOTED CUTTINGS, 1-YR. BEDDED

Per 100 Per 1000
Azalea hinodogiri, 4 to 6 ins.....\$12.00
Azalea Hino-Crimson, 4 to 6 ins..... 12.00
Buxus sempervirens, 4 to 6 ins..... 10.00 \$ 90.00
Chamaecyparis cyano viridis, 4 to 6 ins..... 12.00
Chamaecyparis lutescens, 4 to 6 ins..... 10.00
Ilex bullata, 4 to 6 ins..... 10.00
Ilex crenata, 4 to 6 ins..... 12.00
Juniper, Andorra, 4 to 8 ins..... 12.00
Juniperus hibernica, 4 to 6 ins..... 12.00
Juniperus hetzli, 4 to 6 ins..... 12.00
Juniperus communis aurea, 4 to 6 ins..... 12.00
Leucothoe catesbaei, 4 to 6 ins..... 12.00
Pachysandras 4 to 6 ins..... 35.00
Pieris japonica, 4 to 8 ins..... 12.00
Pyracantha lalandi, 4 to 8 ins..... 10.00
Retinispora plumosa aurea, 6 to 8 ins..... 10.00
Retinispora plumosa, 6 to 8 ins..... 10.00
Taxus brevifolia, 4 to 6 ins..... 10.00
Taxus brownii, 4 to 6 ins..... 12.00
Taxus brevifolia, 4 to 6 ins..... 10.00
Taxus capitata, tips, 6 to 8 ins..... 15.00
Taxus cuspidata, 4 to 6 ins..... 12.00
Taxus cuspidata F&F compacta, 4 to 6 ins..... 15.00
Taxus densiformis, 4 to 6 ins..... 15.00
Taxus canadensis stricta, 4 to 6 ins..... 12.00
Taxus hatfieldi, 4 to 6 ins..... 12.00
Taxus henryi, 4 to 6 ins..... 15.00
Taxus hicksii, 4 to 6 ins..... 12.00
Taxus intermedia, 4 to 6 ins..... 12.00
Taxus Moon's columnaris, 4 to 6 ins..... 12.00
Taxus repandens, 4 to 6 ins..... 12.00
Taxus Vermeulen, 4 to 6 ins..... 12.00
English Ivy..... 4.00
Thuja (Biota) aurea nana..... 12.00
Thuja globosa, 5 to 8 ins..... 10.00
Thuja pyramidalis, 4 to 6 ins..... 10.00
Thuja nigra, 5 to 8 ins..... 10.00

1-YR. SEEDLINGS

Acer palmatum, 4 to 6 ins..... 6.00
Acer Locust (Robinia pseudoacacia), 12 to 18 ins..... 50.00
Taxus capitata, 3 ins..... 30.00
Chinese Chestnut, 12 to 18 ins..... 80.00
Taxus capitata, 4 to 6 ins..... 7.00
(In large quantity, \$50.00 per 1000)

2-YR. SEEDLINGS

Azalea mollis, 4 to 8 ins., transplanted..... 12.00
Taxus capitata, 6 to 8 ins. (3-yr. seedlings)..... 10.00
(In large quantity, \$75.00 per 1000)

3-YR. SEEDLINGS

Balsam Fir, 4 to 6 ins..... 5.00
Picea (White Spruce), 4 to 6 ins..... 5.00
Pinus mughus Tyrolean, 3 to 5 ins..... 6.00
Tsuga diversifolia, 4 to 6 ins..... 7.00
Concolor Fir, 4 to 6 ins..... 8.00
Picea excelsa, 4 to 8 ins..... 5.00
Douglas Fir, 6 to 8 ins..... 6.00
Thuja occidentalis, 6 to 8 ins..... 40.00

(Continued in next column)

(Continued from previous column)

ROOTED CUTTINGS, 2-YR. BEDDED

Juniperus hetzli, 8 to 12 ins.....\$20.00
Retinispora pisifera aurea, 8 to 12 ins..... 20.00
Retinispora plumosa aurea, 8 to 12 ins..... 20.00
Retinispora plumosa, 8 to 12 ins..... 20.00
Pieris japonica, 6 to 10 ins..... 20.00
Taxus cuspidata, 6 to 8 ins..... 20.00
Taxus cuspidata F&F compacta, 6 to 8 ins..... 25.00
Taxus intermedia, 6 to 8 ins..... 20.00
Taxus brownii, 6 to 8 ins..... 20.00
Taxus hicksii, 6 to 8 ins..... 20.00
Taxus brevifolia, 6 to 8 ins..... 20.00
Taxus repandens, 6 to 8 ins..... 20.00
Ilex bullata, 6 to 8 ins..... 15.00
4-YR. TRANSPLANTS
Taxus capitata, 8 to 12 ins..... 20.00
Picea engelmannii, 6 to 8 ins..... 8.00
Picea excelsa, 6 to 12 ins..... 12.00
Picea pungens glauca, 6 to 10 ins..... 12.00
Pinus mughus Tyrolean, 4 to 6 ins..... 20.00
Thuja occidentalis, 8 to 12 ins..... 12.00
Tsuga canadensis, 5 to 8 ins..... 10.00
Tsuga canadensis, 8 to 10 ins..... 15.00
Tsuga canadensis, 10 to 12 ins..... 20.00
5-YR. TRANSPLANTS
Douglas Fir, 12 to 18 ins..... 10.00
Concolor Fir, 6 to 10 ins..... 15.00
Tsuga canadensis, 12 to 15 ins..... 30.00
Picea pungens glauca, 12 to 18 ins..... 20.00
Picea (White Spruce), 12 to 18 ins..... 10.00
Picea excelsa, 12 to 18 ins..... 10.00
POT-GROWN GRAFTS Per 100
Acer palmatum atropurpureum.....\$ 65.00
Fagus sylvatica riversi..... 60.00
Magnolia stellata..... 60.00
Magnolia Water Lily..... 60.00
Picea moerheimii..... 100.00
Picea pungens glauca hoopsii..... 125.00
Picea kosteriana..... 100.00
Pinus cembra..... 60.00

VAN DINE NURSERY

Berdan Ave. Wayne, N. J.

EVERGREEN SEEDLINGS

100 1000
SCOTCH PINE (French or Spanish strain)
2-yr. seedlings (2-0), 4 to 8 ins.....\$ 5 \$ 25
3-yr. seedlings (3-0), 8 to 16 ins..... 8 40
WHITE PINE
3-yr. seedlings (3-0), 5 to 10 ins..... 8 40
4-yr. transplants, grafting size..... 15 75
MUGHO PINE
4-yr. seedlings (4-0), 4 to 8 ins..... 10 50
4-yr. transplants (3-1), 8 to 5 ins..... 15 75
JAPANESE BLACK PINE
2-yr. seedlings (2-0), 4 to 8 ins..... 9 45
3-yr. seedlings (3-0), 8 to 14 ins..... 12 60
WHITE SPRUCE
3-yr. seedlings (3-0), 8 to 14 ins..... 8 40
5-yr. transplants, grafting size..... 20 100
NORWAY SPRUCE
3-yr. seedlings (3-0), 10 to 18 ins..... 9 45
5-yr. transplants, grafting size..... 25 125
COLORADO BLUE SPRUCE
3-yr. seedlings (3-0), 6 to 12 ins..... 9 45
5-yr. transplants (3-2), 8 to 14 ins..... 35 175
CANADIAN HEMLOCK
3-yr. seedlings (3-0), 8 to 12 ins..... 16 80
CONCOLOR FIR
3-yr. seedlings (3-0), 6 to 12 ins..... 8 40
4-yr. seedlings (4-0), 8 to 14 ins..... 11 55
4-yr. transplants (3-1), 4 to 8 ins..... 16 80
5-yr. transplants (3-2), 8 to 12 ins..... 25 125
FRASER FIR
2-yr. seedlings (2-0), 2 to 4 ins..... 8 40
3-yr. seedlings (3-0), 5 to 10 ins..... 12 60
BALSAM FIR
3-yr. seedlings (3-0), 4 to 8 ins..... 8 40
4-yr. transplants (3-1), 4 to 8 ins..... 15 75
BARBERIES, GREEN
2-yr. seedlings (2-0), 6 to 12 ins..... 8 40
2-yr. seedlings (2-0), 12 to 18 ins..... 10 50
WHITE FLOWERING DOGWOOD
Seedlings, 4 to 8 ins..... 7 35
Seedlings, 12 to 24 ins..... 12 60

MUSSER FORESTS, INC.

Box 160C Indiana, Pa.

HEAVY LINERS FROM FIELD BEDS

Per 100
Taxus hicksii, 2-yr., 8 to 12 ins., T.....\$ 30.00
Taxus cuspidata, 2-yr., 8 to 12 ins., T..... 30.00
Taxus capitata, 2-yr., 8 to 12 ins., T..... 32.00
Taxus brownii, 2-yr., 8 to 12 ins., T..... 35.00
Taxus Vermeulen, 2-yr., 8 to 12 ins., T..... 30.00
Taxus andersonii, 2-yr., 8 to 12 ins., T..... 32.00
The above varieties in 3-yr., TTT..... 45.00
The above varieties in 4-yr., TTT..... 50.00
The above varieties in 5-yr., TTT..... 65.00

STROHL'S NURSERY

6204 St. Joe Rd. Fort Wayne, Ind.

DWARF MAHONIA

Jack Mayhan is authority on mountain-grown Mahonia. This is a new variety selection, hardy as Oak. Very compact, dwarf. Ready now. 100,000 plants. All plants U. S. D. A. inspected. Cash in on many years' experience.

2-yr., T, \$20.00 per 100, \$150.00 per 1000.
Few 12 to 15 ins.
5 to 6-yr. finished plants, \$3.00 each.

Cash with order. Full return 5-day privilege.
MAYHAN NURSERY, VERADALE, WASH.

SHRUBS AND TREES—Continued

LANDSCAPE MATERIAL	
JUNIPERUS SYLVESTRIS	
24 to 30 ins.	1.00
30 to 36 ins.	1.50
36 to 42 ins.	1.75
42 to 48 ins.	2.00
5 to 6 ft.	2.75
7 to 8 ft.	4.00

CHINESE FIR	
24 to 30 ins.	1.00
30 to 36 ins.	1.25
36 to 42 ins.	1.50
5 to 8 ft., per ft.	.75

COCOS AUSTRALIS PALM	
2 to 3 ft.	2.50
3 to 4 ft.	3.50
4 to 5 ft.	5.00

SPIRAEA REEVESIANA, DOUBLE	
3 to 4 ft.	1.00

NANDINAS	
30 to 36 ins. (3 to 5 canes)	1.00
36 to 42 ins. (3 to 5 canes)	1.25

FLOWERING QUINCE (RED)	
24 to 30 ins.	1.00
Extra heavy, 6 to 8 canes	1.50

WHITE FLOWERING QUINCE	
24 to 30 ins.	1.25

RED CRAPE MYRTLE	
3 to 4 ft., bare-root, heavy and good spread	.75
3 to 4 ft., B&B	1.10

GARDENIA RADICANS HEAVILY BUDDED	
14 to 18-in. spread	.75
18 to 20 ins.	1.00
20 to 24 ins.	1.25

GARDENIA STRICTA NANA	
14 to 18-in. spread	.75
18 to 20 ins.	1.00
20 to 24 ins.	1.25

WHITE FLOWERING DOGWOOD	
8 to 12 ft., with buds, B&B, per ft.	1.00

SHADOW NURSERIES	
P. O. Box 886	Alexandria, La.

MAIL ORDER ITEMS	
EACH	100 1000

Buxus sempervirens, true,		
2-yr. T, suitable for		
edging), 8 to 10 ins.	\$0.20	\$0.17 1/2

Cornus florida rubra (Pink		
flowering Dogwood), 18 to 24		
ins., 2-yr. grafts	.90	.75

Euonymus alatus compactus		
(dwarf Winged Euonymus),		
2-yr. T, 10 to 15 ins.	.30	.25

Euonymus alatus compactus		
(dwarf Winged Euonymus),		
3-yr. T, 12 to 18 ins.	.45	.40

Ilex hetzli, 2-yr. T, 8 to 12 ins.	.30	.25
Ilex rotundifolia, 2-yr. T,		
8 to 12 ins.	.30	.25

Picea pungens glauca (Colorado		
Blue Spruce), 4-yr. T,		
6 to 9 ins.	.25	.20

Rhus cotinus Royal Purple		
(new dark purple-red leaf		
Smokebush), 1-yr. grafts,		
bedded	.75	.60

Taxus cuspidata, 4-yr. TT,		
FR, 9 to 12 ins.	.60	.50
Taxus densiformis, 4-yr.		
TT, FR, 9 to 12 ins.	.75	.60

Thuja nigra, 2-yr. T,		
12 to 15 ins.	.40	.35
Thuja orientalis aurea nana,		
strong 2-yr. T, cuttings,		
10 to 12 ins.	.50	.45

Viburnum carlesii, 3-yr. seedlings,		
12 to 18 ins.	.40	.35
Viburnum wrightii, 2-yr. S,		
15 to 18 ins.	.15	.12

WHERE QUALITY EXCELS	
NO CHARGE FOR PACKING	
C. HOOGEBOORN, NURSERYMAN	
408 Turner Rd.	Newport, R. I.

1961 SPRING WHOLESALE LIST	
3-yr. liners, 2 TT (from cuttings)	Per 100 Per 1000

Hicks Taxus, 8 to 10 ins.	\$30.00	\$250.00
Cusp. Taxus, 8 to 10 ins.	28.00	220.00
Ilex rotundifolia, 8 to 10 ins.	22.00	200.00

Juniperus hetzli glauca,		
8 to 10 ins.	22.00	200.00
Juniperus hetzli glauca,		
10 to 12 ins.	25.00	220.00

Juniperus hetzli glauca,		
12 to 14 ins.	28.00	230.00
Amer. Arborvitae (dark green),		
10 to 12 ins.	25.00	220.00

Heavy liners, well-sheared, 5 to 6-yr.-old,		
3 to 4 TT. Ideal for containers. Nursery row		
dig. Bare-root		
Amer. Arborvitae, 20 to 24 ins.	\$60.00	

Juniperus hetzli glauca, 18 to 20 ins.	60.00	
Ilex rotundifolia, 10 to 12 ins.	50.00	
Andorra Juniper, 10 to 12 ins.	55.00	

Andorra Juniper, 12 to 14 ins.	60.00	
Forsythia Spring Glory, 24 to 30 ins.	60.00	
250 plants at 1960 rate. Stock offered sub-		
ject to prior sale. Free packing. F.O.B. Wil-		
loughby, O. Terms: 2 per cent discount for		
cash with order, or by express C.O.D. ship-		
ment. Open Sundays. Larger stock balled		
and burlapped to be picked up at nursery.		

LITTLE ACRES NURSERY	
R. D. 5, Chardon Rd.	Willoughby, O.

Turn Stock Into Dollars	
by Listing It in the Classified Ads	
of the American Nurseryman.	

SHRUBS AND TREES

	Each	100	1000
--	------	-----	------

Euonymus alatus			
2 to 3 ft.	\$.85	\$0.80	
3 to 3 1/2 ft.	1.15	1.00	

Euonymus alatus compactus			
24 to 30 ins.	1.15	1.00	
2 1/2 to 3 ft.	1.50	1.25	

Prunus cistena			
2 to 3 ft.	.70	.65	
3 to 3 1/2 ft.	.85	.80	

LINING-OUT STOCK

Arborvitae, pyramidal			
15 to 18 ins.	.50	.40	
18 to 24 ins.	.60	.50	

Juniperus hetzli			
12 to 15 ins.	.40	.35	
18 to 24 ins.	.50	.45	

Juniperus pfitzeriana			
9 to 12 ins.	.35	.30	
18 to 24 ins.	.50	.45	

Taxus cuspidata			
9 to 12 ins.	.45	.40	
Taxus hicksii			
6 to 9 ins.	.50	.45	

Euonymus alatus compactus			
2-yr. T, 9 to 12 ins.	.25	.20	

FANCHER'S NURSERY, Sturtevant, Wis.	
-------------------------------------	--

SHRUBS AND TREES

Acer saccharum, 1 1/2 to 2 ins.	\$12.00
Acer saccharum, 2 to 2 1/2 ins.	15.00
Acer saccharum, 2 1/2 to 3 ins.	20.00

English Oak, 1 1/2 to 2 ins.	12.00
English Oak, 2 to 2 1/2 ins.	15.00
English Oak, 2 1/2 to 3 ins.	20.00

Pin Oak, 1 1/2 to 2 ins.	10.00
Pin Oak, 2 to 2 1/2 ins.	15.00
Pin Oak, 2 1/2 to 3 ins.	18.00

Red Oak, 1 1/2 to 2 ins.	10.00
Red Oak, 2 to 2 1/2 ins.	13.00
Red Oak, 2 1/2 to 3 ins.	15.00

Tilia cordata, 1 1/2 to 2 ins.	10.00
Tilia cordata, 2 to 2 1/2 ins.	14.00
Tilia cordata, 2 1/2 to 3 ins.	18.00

Halesias, single and multiple stems,			
6 to 10 ft., heavy, BB....	\$5.00	and 10.00	

WILL LOAD ON YOUR TRUCKS.	
BELLE VALLEY NURSERY	
5614 Martin Rd.	Erie, Pa.

SPECIAL PRICES

ON PIN AND RED OAK SEEDLINGS	
	Per 100 Per 1000

2 to 3 ft.	\$15.00	\$125.00
3 to 4 ft.	20.00	175.00

Are you needing large shade trees? Buy!		
We got 'em! Nursery-grown in 8-ft. rows:		

Pin Oak, 3 to 6-in. caliper		
Sweet Gum, 2 to 5-in. caliper		
Ash, 4 to 6-in. caliper		

American Linden, 3 1/2 to 5-in. caliper		
River Clump Birch, 10 to 12 ft.		
Native trees in River Birch, rubrum Maple,		
Ash, Pin Oak, Gum, River Clump Birch,		
Sugar Maple, 1 1/2 to 3-in. caliper.		

Write for special prices in quantity lots.		
Daily semi deliveries to Chicago area.		

EGYPTIAN NURSERY & LANDSCAPE CO.	
Phone 3551	Farina, Ill.

SHRUBS AND TREES

1000 Chinese Elm, 3, 4, 5 and 6-in. cal.		
3000 Silver Maple, 1 1/2, 2 and 2 1/2-in. cal.		
200 Norway Maple, 2 1/2 and 3-in. cal.		

150 Schwedler Maple, 2 1/2 and 3 1/2-in. cal.		
400 Sugar Maple, 1 1/2 and 2 1/2-in. cal.		
200 Amer. Sycamore, 1 1/2, 2 and 2 1/2-in. cal.		

500 European Birch, 4 to 5 ft. and 5 to 6 ft.		
1000 Mt. Ash, 5 to 6 ft. and 6 to 8 ft.		
1000 White Ash, 5 to 6 ft. and 6 to 8 ft. to		
2-in. cal.		

1000 Flowering Crab, 3 to 4, 4 to 5, 5 to 6 ft.		
Other trees in smaller quantities. Flower-		
ing shrubs in variety. See our ads under		
Evergreens, B&B.		

NAGLE'S NURSERY

R. 2, Box 267	Decatur, Mich.
Phone Garfield 3-3739	

EVERGREENS, WHOLESALE

A wide selection of Evergreen seedlings		
and transplants, also hardwoods, shade		
trees, ornamentals, shrubs and flowering		
trees. Our selected seed with good heredity		
and scientific culture assures healthy trees		
with heavy roots for rapid growth.		

Musser offers quality trees at a price made		
possible through large quantity production.		
Our cold storage permits late shipments.		
No charge for packing and boxing. Ask for		
complete catalog and wholesale planting		
lists.		

Our ad, which appears on page 24 of this		
issue, shows a partial list of seedlings and		
transplants.		

MUSSER FORESTS

Box 16-DC	Indiana, Pa.
-----------	--------------

SHADE TREES

In sizes up to and including	
Pin Oak	1 1/2-in.
Sweet Gum	1 1/2-in.
Tulip Poplar	1 1/2-in.
Silver Maple	1 1/2-in.
Green Ash	2-in.
Sycamore	2-in.
Thornless Locust	1 1/2-in.
Redbud	5 to 6 ft.

Please write for price list.		
Trees grown in Fleming County, Ky.		

MAIL ADDRESS:	
HILL & PAT FARMS	

313 Holliday Rd.	Lexington, Ky.
Donald J. Hillenmeyer	C. C. Patrick

FLOWERING CRABS

	Each	Each
	10 to 50	50 to 100

2-yr., branched		
Almey, Dolgo, Eley, Hopa,		
Red Silver, Redvein		
4 to 5 ft.	\$1.15	\$1.00
5 to 6 ft.	1.40	1.25
6 to 7 ft.	1.90	1.75

Bechtel's, 4 to 5 ft.	1.65	
Bechtel's, 5 to 6 ft.	2.00	

FIVE-IN-ONE FLOWERING CRAB	
Five distinct varieties on one tree.	
2-yr., 4 to 6 ft.	1.65

WAYNESBORO NURSERIES	
Waynesboro, Va.	

LOMBARDY POPLAR

	Each	25 100
2-yr., 2 to 3 ft.	\$0.15	\$0.10

We have a large quantity of above.		
3 to 4 ft.	.25	.15
4 to 5 ft.	.50	.25
5 to 6 ft.	.60	.40

These have been cut back twice.		
3-yr., heavy branched		
6 to 8 ft.	.75	.60
8 to 10 ft.	1.10	1.00
10 to 12 ft.	1.50	1.00

Packing at cost.

PAUL'S NURSERY	
R. F. D. 3	Shelby, O.

ORNAMENTAL SHRUBS

Crab Apples, 40 varieties; 1-yr. trees and		
limited number 3-yr. transplants. Descriptive		
booklet available.		

COLLECTED STOCK

CANADIAN HEMLOCK
SUGAR MAPLES
BIRCH CLUMPS, FERNS
AND WILDFLOWERS
Send for wholesale list.
LAMPREY RIVER NURSERY
Radford H. Palmer

R. F. D. 1 Durham, N. H.

EXTRA! SPECIAL ON BUISMAN ELMS

(Resistant to Dutch Elm disease.)

Transplanted whips. Root cutting grown.

4 to 5 ft. 5 to 6 ft. 6 to 7 ft.

2 to 2 1/2 ins. 2 1/2 to 3 ins. 3 to 3 1/2 ins.

Attractive quantity prices.

Come out and look at this material.

RALPH SYNNESTVEDT & ASSOCIATES

3602 Glenview Rd. Glenview, Ill.

MAPLES, BIRCHES, COLLECTED N. H.

Sugar Maples, 2 1/2 to 3 1/2 ft. \$15.00 per 100

White Birch, 3 1/2 to 4 1/2 ft. 20.00 per 100

White Pine, 2 to 3 ft. 2.25 each

Canadian Hemlock, 2 to 3 ft. 2.25 each

NURSERY JUNIPER, Hetz,

Pitzer, Andorra, any,

15 to 18 ins. 2.00 each

Juniper, 18 to 24 ins. 2.50 each

MAPLEWOOD NURSERY, FRANKLIN, N.H.

FINISHED STOCK ONLY

European Mt. Ash London Plane

Clump Birch Lombardy Poplar

Norway Maple Tulip Trees

Silver Maple Weeping Willow

Taxus, flowering shrubs and Malus.

Send for prices.

YORK NURSERIES

695 Elm St. Painesville, O.

TRANSPLANTED SHADE TREES

Green Ash, 1 1/2 to 1 1/2 in. cal. \$3.00

Silver Maple, 1 1/2 to 2 in. cal. 3.00

Chinese Elm, 1 1/2 to 2 in. cal. 3.00

Thornless Honey Locust, 1 1/2 to 1 1/2 in. cal. 3.00

Sycamore, 1 1/2 to 2 in. cal. 3.00

On Route 173, 2 miles west of Route 45,

P. O. Box 286 Antioch, Ill.

Phone Antioch 2222

PLATANUS ACERIFOLIA

(London Plane, best strain.)

Each, 100 1000

2 to 3 ft. \$0.25 \$0.18

3 to 4 ft. .35 .25

4 to 5 ft. .45 .35

5 to 6 ft. transplants. 1.50 1.25

BULK'S NURSERIES, INC.

610 W. Montauk Hwy., Babylon, L. I., N. Y.

CHINESE ELM

Each, 100 1000

6 to 12 ins., seedlings. \$1.25 \$10.00

12 to 18 ins., seedlings. 2.00 15.00

18 to 24 ins., seedlings. 2.75 22.50

2 to 3 ft., seedlings. 4.00 35.00

Free packing. Samples if requested.

ROGERS & KOPPENHEFFER NURSERY

2029 Judson Dr. Manhattan, Kan.

LARGE SHADE TREES

Pin Oak, Red Oak, Sweet Gum,

4 to 10-in. caliper.

Many other landscape items

in specimen material. All nursery grown.

65 acres. Established 40 years.

GEO. F. BLOOMER NURSERIES

Route 69 Flemington, N. J.

WINTER JASMINE

(Jasminum nudiflorum)

2-yr., \$4.00 per 10, \$35.00 per 100.

3-yr., \$5.00 per 10, \$45.00 per 100.

WAYNESBORO NURSERIES

Waynesboro, Va.

LAND SOLD

Plants must go. Evergreens, Boxwood and

shrubs. Also large southern Magnolias. Send

want list.

BOXWOOD NURSERIES

Mocksville, N. C.

Taxus liners and rooted cuttings. Ilex

crenata varieties and Euonymus Sarcocoe.

Also well-sheared finished plants, canned.

Write for prices. Riggs Nursery, 940 Madison

Ave., Painesville, O.

DAPHNE ODORA

Rooted cuttings, 10c.

STALP'S FLOWER NOOK

R. 2, Box 42 Aurora, Ore.

More customers for you!

Over 9,500 subscribers, all active buyers,

see your ad in the American Nurseryman.

STRAWBERRIES

TENNESSEE'S FINEST

CERTIFIED STRAWBERRY PLANTS

Priced per 1000. F.O.B.

Blakemore \$6.00 Tenn. Shipper \$8.00

Armstrong 8.00 Catskill 8.00

Dixieland 8.00 Sparkle 10.00

Premier 8.00 Pocahontas 10.00

Robinson 8.00 Gem Evb. 12.00

Tenn. Beauty 8.00 Superfection Ev. 12.00

100 plants, \$2.50, postpaid.

SMITH BERRY GARDENS

Phone (Chattanooga) FI 4-6758,

Ooltewah, Tenn.

PACKAGED STRAWBERRY PLANTS

For your retail trade, packed in polyethylene. 25 plants wrapped in attractive colored picture package, each with complete growing guide.

Blakemore, Dunlap, Robinson, Armore, 20 package crate, \$7.00; 40 package crate, \$14.00.

Pocahontas, 20 package crate, \$7.50; 40 package crate, \$15.00.

Ozark Beauty and Ogalalla, the very best everbearing, 20 package crate, \$10.00; 40 package crate, \$20.00.

Bulk plants in bundles of 25, packed 1000 plants to crate. Blakemore, Dunlap, Robinson, \$8.00 per 100. Armore, \$9.00 per 1000.

Pocahontas, \$10.00 per 1000.

All plants certified and virus-free.

Prompt shipment. Live arrival guaranteed.

SHANK FARMS, GRANBY, MO.

STRAWBERRY PLANTS

26 varieties Strawberry plants, including New Ogalalla, Cyclone, Trumpeter and Earlimore. Write for list.

RIDER NURSERY, FARMINGTON, IA.

TAXUS

TAXUS CAPITATA

Upright Japanese Yew,

grown from Japanese imported seed.

2-yr. seedlings. Seed sown lightly.

75,000 2-yr. seedlings. 1000 10,000

4 to 6 ins. \$75.00 \$600.00

65,000 2-yr. seedlings. 90.00 750.00

6 to 8 ins. 90.00 750.00

SHADE'S NURSERY

624 Colonial Club Dr. Harrisburg, Pa.

Phone Harrisburg KI 5-5117

5 miles east of Harrisburg on U. S. Route

22. Turn north at Inn. 22, nursery 1 mile

north of U. S. Route 22.

TAXUS

Brevifolia, 2-yr., T. \$0.40 \$0.35

Browni, 2-yr., T. .40 .35

Cuspidata, 2-yr., T. .40 .35

4-yr., TT. FR. .60 .50

Densiformis, 2-yr., T. .45 .40

4-yr., TT. FR. .75 .60

Hatfield, 2-yr., T. .40 .35

WHERE QUALITY EXCELS. No charge

for packing.

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

TAXUS

Japanese Yew (capitata), from seed.

(3-2-3), 10 to 18 ins., T. \$1.00 each.

Twice sheared, good color, massive roots.

(2-0), 2-yr., S. 4 to 8 ins.,

\$85.00 per 1000, \$10.00 per 100.

(2-0), 2-yr., S. bed-run, 2 to 6 ins.,

\$60.00 per 1000, \$7.50 per 100.

Also Pine, Spruce, Fir.

DENTON NURSERY

Route 1 Conneaut, O.

EVERGREENS, ROOTED CUTTINGS

Each, 100 1000

Taxus andersoni, 8 to 10 ins. \$0.09 \$0.08

Taxus browni, 8 to 10 ins. .09 .08

Taxus densiformis, 8 to 10 ins. .09 .08

Taxus Donnell, 8 to 10 ins. .09 .08

Taxus hicksi, 8 to 10 ins. .09 .08

Taxus intermedia (Seb.), 8 to 10 ins. .09 .08

Taxus wardi, 8 to 10 ins. .09 .08

F.O.B. Painesville, O.

KUNDITZ GREENHOUSE & NURSERY

2077 W. Jackson St. Painesville, O.

SHEARED TAXUS

Each, 100 1000

Taxus hicksi, 18 to 24 ins. \$3.25 \$3.00

Taxus cuspidata, 15 to 18 ins. 3.00 2.50

Taxus cuspidata, 18 to 24 ins. 3.50 3.00

Taxus cuspidata, 24 to 30 ins. 4.50 .

Taxus thayerae, 15 to 18 ins. 3.00 2.50

Taxus thayerae, 18 to 24 ins. 3.50 3.00

Taxus thayerae, 24 to 30 ins. 4.50 .

B&B. F.O.B. nursery. Terms cash.

WICK'S NURSERIES

Jamesport, L. I., N. Y.

TAXUS, QUANTITY AND QUALITY

Hicksi, 15 to 18 ins., 18 to 24 ins.

Cuspidata, 15 to 18 ins., 18 to 24 ins.

Densiformis, 15 to 18 ins., 18 to 24 ins.

Henryi, 15 to 18 ins., 18 to 24 ins.

Intermedia, 15 to 18 ins.

Browni, 12 to 15 ins., 15 to 18 ins.

JUNIPER HILL NURSERIES

Highway 6 West Kendallville, Ind.

Phone 553-R3 and 1072-R4.

40,000 3-YR.-OLD YEW LINERS

Grown 2 years in full sun. Extra heavy.

Taxus cuspidata

Taxus hicksi

Taxus hatfieldi

In 1000 lots, 18c each.

In 1000 lots, 22c each.

CLARKSBURG NURSERY &

GARDEN CENTER

Clarksburg, Ind.

24 TOP VARIETIES, ROOTED CUTTINGS,

pots, beds and field. Send for new list.

JOHN VERMEULEN & SONS, INC.

P. O. Box 832A Neshanic Station, N. J.

TAXUS LINERS

2-yr. in open beds, banded.

Hatfield, heavy liners .26c each

Hicks, heavy liners .26c each

Cuspidata, heavy liners .26c each

Anderson, heavy liners .26c each

HARTMAN NURSERY

22 Godwin Lane St. Louis 24, Mo.

VEGETABLE PLANTS

VIGOROUS

VEGETABLE PLANTS

FOR FLORISTS AND GARDEN SHOPS

Wide selection of Vegetable Plants, in-

cluding all leading varieties and many hy-

brids. Fast service and convenient packag-

ing. These outdoor-grown plants are much

stronger than hothouse plants and are

rushed direct to you from our fields. They

are freshly dug and fully guaranteed to

arrive in good condition. We invite you to

open an account or will ship C.O.D. Write,

wire or call us today. We can ship by rail

express, or if over 5000 plants by air freight.

Per 1000

Golden Acre Cabbage plants. \$2.00

Yellow Sweet Spanish Onion plants. 1.50

Beefsteak, Valiant, Rutgers Tomato

plants. 4.50

Burpee Big Boy® F-1 Hybrid

Tomato plants. 20.00

California Wonder Sweet Pepper plants. 4.75

The above prices are F.O.B. Albany. Mini-

mum quantity of 500 of one variety, please.

Write for our 55th anniversary catalog de-

scribing many other varieties.

(Reg. T.M. W. Atlee Burpee Co.)

PIEDMONT PLANT CO.

Dept. 901 Albany, Ga.

FOR GARDEN AND NURSERY SHOPS

WRITE FOR COMPLETE WHOLESALE

LIST OF POPULAR VARIETIES

Cabbage, 20 popular varieties. 2000, \$5.40

RED Hollander, Wisc. Y. R.

Cabbage. 1000, 3.65

Onions, 4 popular varieties. 6000, 5.40

HYBRID Onions, Yellow Spanish. 6000, 6.95

State inspected. Shipped by express now.

All guaranteed, fresh pulled, true to name.

Tomato, Pepper, Yam plants ready in April.

FARRIER PLANT FARMS

Box AN787 Omaha, Texas

VIBURNUMS

VIBURNUM CARLESI

Fragrant Mayflower Viburnum.

2-yr. seedlings, 4 to 6 ins., \$15.00 per 100.

\$125.00 per 1000; 6 to 8 ins., \$20.00 per 100.

\$175.00 per 1000; 3-yr. seedlings, 12 to 18

ins., \$40.00 per 100, \$350.00 per 1000.

WHERE QUALITY EXCELS. No charge

for packing.

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

VIBURNUM CARLESI COMPACTA (NEW)

This is a compact form of Viburnum car-

lesii with dark green leaves and buds up very

readily.

Strong 2-yr. grafts, \$125.00 per 100, \$1000.00

per 1000.

WHERE QUALITY EXCELS. No charge

for packing.

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

VIBURNUM CARLESI

10 100

18 to 24 ins. \$14.00 \$120.00

2 to 3 ft. 20.00 180.00

Ask for prices on B&B specimens.

WAYNESBORO NURSERIES

Waynesboro, Va.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

POLYETHYLENE FILM
SAVE MONEY AT THESE LOW PRICES
 .0015 mil., black, 3 ft. x 1000 ft. \$14.03
 .002 mil., clear, 4 ft. x 200 ft. 5.04
 .004 mil., clear, 6 ft. x 100 ft. 7.26
 .004 mil., clear, 10 ft. x 100 ft. 12.10
 .006 mil., clear, 10 ft. x 100 ft. 18.15
 Many other widths available in clear or black.

Save up to one-third. **WHY PAY MORE?**
 Write for complete list of sizes and prices per roll.

SUPERIOR PLASTICS
 1421 W. Chicago Ave. Chicago 22, Ill.
VIKING CLOTH—Plastic Sealed Burlap.
 Let in light. Keep out Water. Wind.
 In 50-yard rolls 5 ft. wide, \$38.00.
 Polyethylene Clear. Black. Rolls. Sts.
HALF MOON CO., ex B27A, Plainfield, N. J.

PLASTIC POTS

NEW LOW PRICES
WILSON HIGH IMPACT
POLYSTYRENE PLASTIC POTS
 Attractive mottled green colors in utility grade, sold in original cartons only. All prices F.O.B. Dayton, O.

	Per 1000	Wt.
2 -in., round, 1000 case.....	\$ 10.75	13 lbs.
2 1/2 -in., round, 1200 case.....	11.75	18 lbs.
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6 -in., round tub, 120 case.....	100.00	25 lbs.
2 1/2 -in., square, 1000 case.....	11.75	17 lbs.
2 1/2 -in., square, 1000 case.....	14.75	22 lbs.
3 -in., square, 1000 case.....	18.25	35 lbs.
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No. 10 Planta Can, 150 cases. 120.00	45 lbs.	

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66	6-in.	5-in.	6-in.	200	57.50
76	7-in.	6-in.	7-in.	100	62.50
79	7-in.	5 1/2 -in.	9-in.	100	70.00
86	8-in.	7-in.	6-in.	100	70.00
89	8-in.	6 1/4 -in.	9-in.	100	80.00
99	9-in.	7-in.	9-in.	100	100.00
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CALIFORNIA ARBORISTS DISCUSS SPECIFICATIONS

The California Association of Arborists met in the Max J. Leonard building, at Redwood City, March 15. Business activities were confined to reports on the Arbor day activities and the consideration of changes in the association's approved tree trimming specifications.

The tree trimming specifications were prepared by a committee headed by Sylvester Evans, landscape architect, California state highway department. Mr. Evans had been trained in arboriculture by the eastern Davey Tree Expert organization, received commercial experience in arboriculture in Texas and has been with the highway department for a number of years in charge of planting, care and removal of trees and other plant materials on the state's highways in the San Francisco area.

About a year ago the association adopted the specifications after making a few changes, largely in the wording of some of the sections. The association then presented them to the Western Chapter of the National Shade Tree Conference, at a San Francisco meeting, and that organization has them under consideration for discussion at its next convention.

The purpose of the discussion was to make suggested changes in the specifications which could only be made after they had been in use for some time and after they had had the test of time and experience by the state's arborists. Mr. Evans went over the material a paragraph at a time and gave his interpretation of

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the more controversial items. The membership then was called on to tell experiences with the material.

Although the past year has brought much discussion and some unfavorable criticism of the specifications, it was noted that in general they had been helpful.

It was stated that the material was helpful in organizing procedures for bids or offers to do work, that it made competitive bidding a more equalized proposition and that it seemingly was approved by most arborists and their clients. It was agreed that it provided a standard of workmanship merely by making it possible for all to work under somewhat the same conditions. The flaws in the specifications seemed to be limited to personal misunder-

standings of some paragraphs and a lack of completeness in others.

It was brought out that the one serious omission was that the owner was not mentioned nor seemingly taken into consideration. This was remedied by a few additions and a few revisions in wording of some paragraphs. It also was noted that the use of these specifications is making it increasingly difficult for less conscientious operators to carry on and explain malpractice by stating that the terms were misunderstood when the price was given and the offer accepted. It was agreed that this is their greatest benefit.

The greatest objections to the specifications seemed to arise from the fact that they did not go into sufficient detail and that it is im-

possible for a landscape architect, landscape contractor, school board or other organization to use them as specifications in calling for bids for large operations. It was then noted that these articles are not specifications in the usual sense of the word but actually are standards of workmanship. The name was changed, and hereafter they will be known as such. The individual contractor using the standards as a basis for pricing his work and as a source of definitions for the client will be able to operate as he wishes on the job or while preparing for it.

Several other minor matters of business were discussed but were set aside to be considered at the next meeting, which will be held at the same place April 19. W. B. B.

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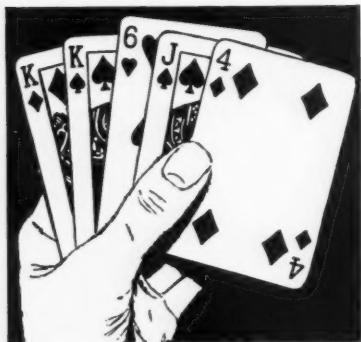
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TRACES REASONS FOR BAY AREA TREE DEATHS

In an address entitled "Why Our Trees Are Dying" delivered at the November meeting of the California Arborists Association, H. R. Sciaroni, San Mateo county agricultural director, stated that there are many factors contributing to the recent increase in tree deaths in the San Francisco bay area. Discussing a few of the chief factors, he cited smog as the most important and hardest to combat.

There seem to be four different smog components that cause plant injury. Oxidants, produced in automobile exhausts, factory wastes and the burning of agricultural and home waste materials, are becoming more prevalent in the atmosphere, and steps must be taken to combat them.

Ethylene Harmful

Ethylene, too, is produced largely in the burning of trash in open fires and also in the burning of natural gas. This, it seems, is the product which causes first damage to flowers in greenhouses, and Mr. Sciaroni indicated he thought it was the cause of much unexplained damage to all ornamental crops, including trees. It is becoming a greater problem as more people move into the area and more gas is used for home heating, cooking and other purposes.

Sulphur dioxide is a by-product of fuel oil consumption either by homeowners or industry. While it is currently on the increase as an air pollutant, it can be controlled by proper chimney equipment, and progress is being made in that direction. The fourth smog element given was fluoride, which is produced in steel mills. Fluoride damage is not extensive, but it is serious.

Mechanical Causes

Another cause of tree deaths cited by Mr. Sciaroni was careless earth removal in building developments and the failure on the part of all concerned to assure themselves that good soil is brought in for planting purposes. Compaction of the soil by heavy equipment used in grading or other large-scale building operations also is creating conditions in which trees cannot grow, he said. He feels that it is almost impossible to correct such conditions after the planting is done, but he gave careful and complete directions for correction as soon as the building work is completed and before any planting is done.

He reported considerable damage in San Mateo county parks and

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recreation areas as well as school grounds and the grounds of public buildings and regretted that even in such places proper soil management was not practiced, largely, he said, because of insufficient funds provided for landscaping and maintenance work.

There is, too, a large amount of saline soil in the bay area, he said. Though this condition can be corrected before planting, it presents an almost hopeless case after the trees are planted and begin to show symptoms of injury. Recommended were properly installed drainage and a control of the water table.

The saline conditions are found not only in areas adjacent to the San Francisco bay, where there is now a great deal of building being done, but also in the hills and in other areas where one would not suspect saline conditions. Only a soil analysis can indicate positively that a saline condition exists, and he recommended such an analysis as a first step in making a diagnosis of tree illnesses.

In the uplands the saline conditions occur near wells which are high in salts and in areas receiving the drainage from salt holes, which are a carry-over from the salt water that covered the peninsula thousands of years ago. Poor water also contains boron, sodium and other salts. If the concentration of these is too high, much trouble results. He offered the services of his office to make tests of the composition of well water when excess salts are suspected.

Herbicide Factor

The last reason for tree damage he cited was the improper or excessive use of weed killers. This is a new development in damage to ornamentals. It comes, he feels, in part from the failure of the makers of the materials to test the products fully, but more from the improper use of these chemicals by those who apply them.

In addition he noted that some materials that are excellent weed killers when left in the top two or three inches of the soil are dangerous when they are placed deeper—through tilling, plowing or other means—and come in contact with the roots of shrubs or trees. He noted, too, that the wetting agents used and the combinations of some spray materials have deleterious effects on plant growth and that one must be aware of such conditions and prevent them if he is to do his work of tree care properly.

The talk was well received and was followed by a long series of questions on the subject matter and related problems. W. B. B.



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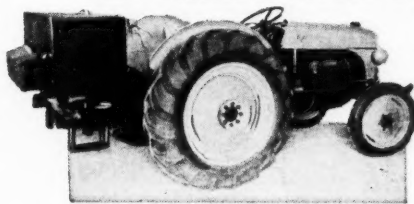
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Oregon Growers Hear Insect and Disease Data

By Charles H. Potter

I. C. MacSwan, extension pathologist, and Robert Every, extension entomologist, both of Oregon State College, Corvallis, talked to a group of nurserymen the evening of March 21 at the Portland Wholesale Nursery Co., Portland. Their joint topic was "Life Cycles of and Control Measures for Nursery Insect Pests and Diseases."

Many problems of nursery crops, said Mr. MacSwan, are due to poor growing conditions having to do with location, soil and fertilizer. Also, plants are often left vulnerable to pest and disease attack by mechanical injury, as well as winter injury. He urged careful handling of equipment about the nursery and suggested that employees be better trained in this matter. If cultural problems are neglected, the controls used for pests and diseases do not mean much, he said.

Disease Causes

Next he listed the causes of diseases. Viruses reproduce in living tissue only and many are transmitted by insects from one plant to another. Controlling the insects is important in virus control.

Bacteria reproduce by fission with remarkable speed. They are usually introduced through a wound to the plant and are spread mostly through moisture in the soil, though they are also transmitted by humans and animals and can be air-borne in drops of water.

Fungi have definite life cycles and are spread principally by means of spores blown by the wind. Nematodes move from place to place through the transportation of soil or in water.

Mr. MacSwan then enlarged upon the matter of fungi. He illustrated to the growers the means by which fungus spores germinate on plant surfaces. The spray used to control fungi must completely cover the plant surfaces, he said, for a fungicide kills the fungus through contact with the germinating spore's germ tube at the plant surface. Fungus must be stopped before it gets started. If fungicides were made that killed the spore itself or killed the fungus in stages other than the germinating stage,

the effect would be detrimental to the plant. The extreme smallness of fungus spores emphasizes the importance of thorough coverage.

Early spring sprays are the most effective in controlling fungi, he said, because that is the time when conditions of moisture, temperature, etc., are ideal for the fungus spores to germinate. Sometimes fall spraying will help in the control pattern. There are three major factors in fungus control, he said: (1) The fungicide, (2) correct timing of the application and (3) the thoroughness with which it is applied.

A series of sprays is necessary to cover new plant surfaces that appear, to treat for newly appearing fungus spores and to replace the fungicide washed away by rains. Up to seven applications of fungicide are required in the Pacific northwest, where summer rains are infre-

quent, as compared to 15 to 18 applications in other parts of the country where summer rains come frequently, thereby removing the fungicide more often. A healthy plant, he said, is no insurance against fungus attack. Optimum temperature, moisture and nutrition are the controlling factors for fungus development.

Robert Every said, concerning insect control, the grower must know what insects are involved, what their habits are and when and where to make applications of insecticides. The matter of whether an insect has chewing or sucking mouth parts is not so important as it once was, he said, because the modern insecticides have overlapping control effects.

The residual life of an insecticide is important where food crops are concerned but not so much so with nursery crops, unless (in some instances) food crops are to follow. The vapor pressure of an insecticide helps to determine the amount of time it will remain effective. A high vapor pressure means that the material will quickly dissipate. Formulations with a low vapor pressure, such as DDT, are more stable.

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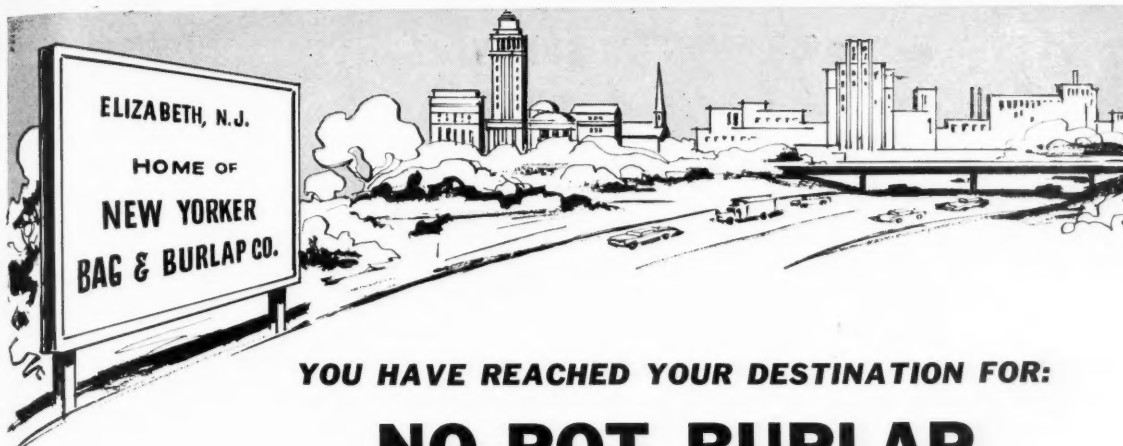
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chemical in water is also important. If it is too soluble, plant injury may occur. An insecticide cannot be washed into the soil with any degree of effectiveness, he said, because of its insolubility. It must be worked well into the top six or seven inches of soil.

Concerning root weevils, he said that they are susceptible to insecticides only at the time they emerge from the ground or when the young hatch from the eggs. Weevils emerge from mid-May to August, with the heaviest emergence in early June. Dust formulations, he said, are the least persistent in insect control; wettable powder has a longer residual action, and emulsion concentrate gives the longest-lasting results. As with fungicides, the appearance of new plant growth makes repeated applications necessary.

The susceptibility of various insects is an important factor in the effectiveness of control. Insecticides that are fat soluble, such as DDT, will be absorbed by fat-carrying insects, he said. Insects with natural resistance or those that develop resistance are making insect control in many instances increasingly difficult, he added.

Mites are proving to be the most resistant. Whereas malathion is still



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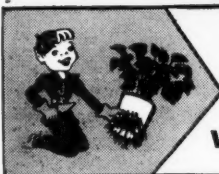
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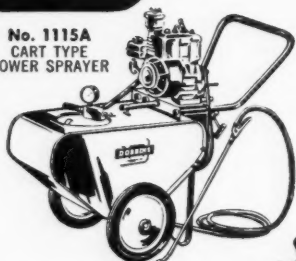
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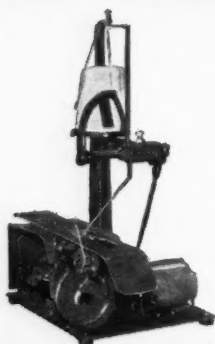
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Mr. Every dealt finally with systemics, such as OMPA, Systox and Thimet, and said that the main reason more growers do not use them is because they are highly dangerous to handle. Once the systemic material is absorbed by the plant it is fairly safe, he said.

Systemics as they are now known break down into degradation materials which will not pass the food and drug act requirements, he said. Another matter holding back the development of systemics is the high cost of their development and manufacture, while the market, exclusive of food crops, is limited. He predicted that more and better systemics which will be far safer will be developed in the near future.

NEMATODES

[Continued from page 7]

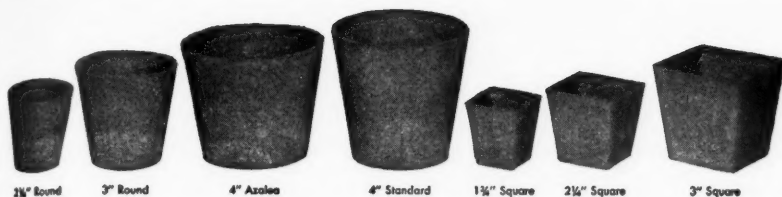
interrupted, and the plant frequently starts to show signs of malnutrition and stunting. Root-knot nematodes are known to attack over 1,700 different kinds of plants. Figure 1 shows the effect of severe root-knot infection on *Ilex crenata* helleri.

The meadow, or root-lesion, nematode is considered a migratory endoparasite because, although it lives and feeds within root tissue, it can, unlike the root-knot nematode, leave one feeding site and migrate to another. Its feeding causes local cell necrosis, which may in itself interrupt the normal root functions, but may also provide a portal of entry for fungi and bacteria which may cause root rots or wilts.

There are a number of ectoparasites which are known to damage ornamental plants. Some of these cause damage by mechanically injuring cells with their stylets, whereas others inject into the cells an enzyme-like material that is toxic to the host plant.

Two Aboveground Feeders

Although most plant parasitic nematodes feed only on belowground plant parts, there is a small group that does feed aboveground. Only two top feeders are associated with flowers and other ornamental plants. *Aphlenchoides* species attack buds and leaves of certain flowering plants. The chrysanthemum-leaf



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3-in. Square	10,000 to 24,000	17.50	1000
Ctn. Wt. 39 lbs.	25,000 and up	16.10	
S-1700 F	500 to 4,500	29.75	
4-in. Round Std.	5,000 to 12,000	27.75	500
Ctn. Wt. 30 lbs.	12,500 and up	25.75	
S-1700 G	500 to 4,500	29.75	
4-in. Round Azalea	5,000 to 12,000	27.75	500
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S-1705 B	2,500 to 27,500	8.10	
2 1/4-in. Square	30,000 to 72,500	7.60	2500
Ctn. Wt. 40 lbs.	75,000 and up	7.00	
S-1705 C	1,250 to 15,000	13.30	
3-in. Round	16,250 to 35,000	12.30	1250
Ctn. Wt. 27 lbs.	36,250 and up	11.30	
S-1705 D	1,200 to 9,600	15.50	
3-in. Square	10,800 to 24,000	14.50	1200
Ctn. Wt. 38 lbs.	25,200 and up	13.50	

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nematode is an example. Ditylenchus species attack bulbs, stems and leaves of daffodils and other bulb or corm crops. Both types are of only local importance, however.

Plant parasitic nematodes have an extremely wide host range. Although studies are not complete, evidence to date indicates that all ornamental plants may be damaged by some form of parasitic nematode. In 1941 Tarjan⁴ found parasitic nematodes on a wide variety of plants. Some included were African violet, yew (taxus), elm, boxwood, apple, oak, red cedar and chrysanthemum.

In 1958 a survey was made of 33 commercial nurseries in New Jersey¹ where 190 samples from 27 genera of plants were examined. This survey showed that most plants were attacked by a number of known or suspected plant parasitic nematodes. It was also evident that any given

nematode genus could attack a wide range of host plants.

A survey of rose plants was made in 1956 in which 16 samples from 34 growers in 14 states were examined². Large numbers of parasitic nematodes were found in every case where the plants showed poor growth. General plant decline, loss of color and general low vigor are good signs of nematode invasion. One hundred and eighty-two declining boxwood plants were examined in Virginia prior to 1957³. These plants yielded a total of 13 genera of plant parasitic nematodes. Although many other examples are in the literature, the foregoing should give some indication of the breadth and intensity of this problem.

Symptom Diagnosis Difficult

It is quite understandable that most nurserymen do not easily recog-

nize the aboveground symptoms of nematode damage. In the first place, symptoms of attack do not necessarily follow any characteristic pattern which would distinguish them from injury caused by root rots, other soil-borne diseases or adverse environmental conditions. Even casual root examination will not give an indication of nematode damage except where root-knot symptoms are involved. In addition, nematodes are tiny creatures, ranging from one-sixty-fourth to one-eighth of an inch in length. Moreover, they are extremely slender and usually transparent. It has only been in recent years that symptom correlation studies, inoculation experiments and new extraction techniques have made possible more reliable diagnosis of nematode injury on the basis of symptoms.

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nematode-infected plant will vary with growing conditions, the nematodes involved and the host plants attacked. In all but the most severe cases or those involving root knot, it is almost impossible for anyone to diagnose nematode injury accurately at first glance.

Deficiency Symptoms General

There are certain general symptoms which are associated with nematode infection on ornamental plants. Infected plants may be stunted or off color or may show signs of wilt even though soil moisture conditions are favorable. Frequently plants may exhibit typical nutrient deficiency symptoms although the soil fertility level is satisfactory for good growth. These situations are triggered by nematodes which so affect the root system of the plant that it is unable to absorb water and nutrients available in the soil.

Additional fertilizing is of questionable benefit in these cases. Many infected plants develop a grayish-tan color. This condition may involve the entire plant or it may affect only a branch or two. Azaleas, camellias, rhododendron, gardenias, ligustrum and other broad-leaved evergreens may develop a marked chlorosis and reduction in vigor. The extent of new growth may be severely reduced or be absent completely.

The chrysanthemum-leaf nematode causes a preliminary yellowish-brown spotting of the leaves. The spots coalesce, and soon the entire leaf may be involved. Infected leaves become brittle, die and fall from the plant. Infection of ray flowers may prevent proper development of the blooms.

The stem and bulb nematode on narcissus and other bulb crops causes the infected scales to turn brown. A cut surface of the bulb shows one or more brown rings in contrast to the healthy white tissue. Bulbs which are badly diseased either produce no foliage or only a few twisted and bent leaves.

Root Symptoms

Root examination frequently yields additional information for diagnosis. Even here, however, results are not always reliable. Root-knot infections are quite obvious and are easily recognized. It is not so simple, however, to recognize the damage caused by non-gall-forming genera of nematodes. A stunted and sparse root system, or a stunted but excessively bushy root growth may be indicative of nematode damage. Heavy feeding activity of the root

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lesion nematode may sufficiently damage the cortex of the root to cause it to be easily stripped off, leaving the exposed stele. With a good hand lens one can occasionally see small, dark, necrotic areas along the root which indicate sites at which nematodes have fed.

Soil examination has definite merit, but even it falls far short of giving a complete answer. For example, the examination of soil without roots is quite likely to miss the root-knot nematode completely. Certain parasitic nematodes will migrate from dead to living roots or may die in place so that sampling around a dead plant may be highly misleading. If a high population of parasitic nematodes is found in a soil sample, it indicates that either there is a problem present or at least the potential of one. However, if no parasitic forms are found one can only speculate as to why. There is always a possibility, of course, that nematodes were not the problem in that specific limited area. However, it is also possible that parasitic forms have moved to adjacent plants or that they might occur in localized areas which were not included in the soil sample. Although the examination of soil samples is a step in the direction of a more accurate diagno-

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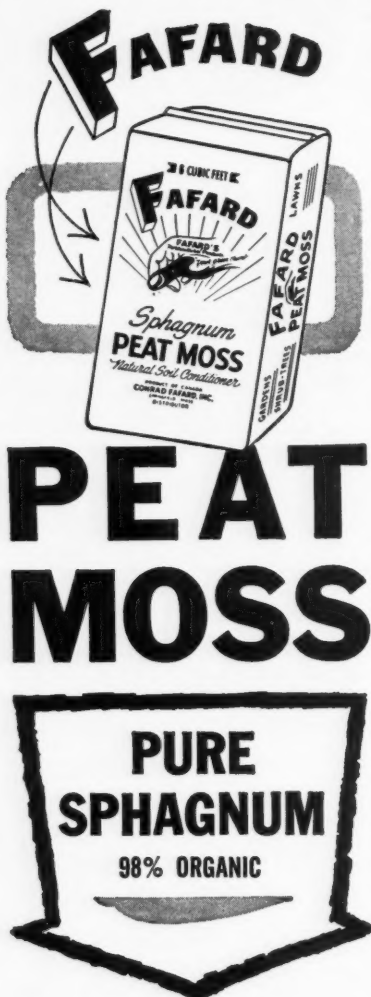
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sis of a nematode problem, one must be realistic in the interpretation of the results.

If the symptoms of nematode attack are so difficult to identify, a nurseryman often asks how he can determine whether or not he has a nematode problem. Fumigating a small area in the nursery and observing plant response will give the most reliable information as to whether or not a problem exists. Figure 2 illustrates a type of response that can be demonstrated. The Japanese hollies are the same age, but the one on the left was grown in a nematode-infested area, while the one on the right was grown in soil that had been treated with DBCP (Nemagon).

Either pre- or post-plant applications may be used. The pre-plant approach can be considered when one's seedbeds or transplant beds for lining-out stock are not producing the number or quality of plants desired. There are a number of materials, which will be discussed in more detail later, that can be used to treat sections of these beds before seeds or stock is introduced. If only one bed is involved, it would be advisable to treat half of it and leave the other half for comparison. However, if several beds of different plant species are to be considered, it is wise to treat a strip across the beds, so that the reaction of the various species may be observed. In either case it is desirable to treat a large enough area to minimize the danger of outside contamination.

Post-Plant Treatment

A post-plant treatment, as the name implies, is the application of a nematocide to established plants. It is rather common experience that certain areas in a field will not produce so well as others. After such factors as drainage, fertility level and soil type have been ruled out, one naturally suspects nematode damage. Certain nematocides may be applied around living plants either as injections of liquid formulations, as granular formulations worked into the soil or as drenches.

Liquid nematocides may be injected into the soil with hand equipment or tractor-drawn rigs. They may also be applied as drenches. Large-scale tractor-powered equipment is available when greater areas are to be treated. Granular materials may be spread on the surface of the soil and disked or rototilled in immediately. They may also be applied with a modified fertilizer drill. Drench application has utility on small areas, but in view of the large

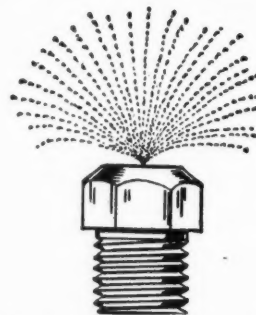


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quantities of water involved it is somewhat questionable as to its practical application to large areas.

Methyl Bromide Fumigant

A third type of soil fumigant, which has not been mentioned, is methyl bromide. This is a liquid when kept under high pressure or low temperatures but changes to a gas under normal conditions. It must be introduced under a gasproof cover. Methyl bromide is odorless, colorless and tasteless, but a deadly poison. It is usually mixed with 1 or 2 per cent chloropicrin, (ordinary tear gas), to act as a warning agent. In addition to the concentrated methyl bromide-chloropicrin mixtures, the material is also available as an emulsion, which may be applied with a tractor-drawn applicator. In either case, however, the area must be sealed with a gasproof cover. Although somewhat more cumbersome to use because of the necessity of a cover, methyl bromide has the advantage of killing not only nematodes but also soil-borne fungi, insects and many kinds of weed seeds.

The plot layout may be adjusted to meet individual circumstances. If only one variety of a plant growing in rows is involved, one can treat several rows down the middle of the area. However, if several varieties are involved it is desirable to treat a 100-foot strip across the rows so that varietal plant responses can be observed. The nurseryman should carefully mark treated areas and keep records on the kind and amount of material used. A number of nematocidal chemicals are available on the market today.

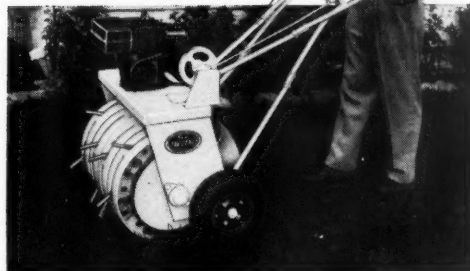
Production Economics

Production economics play an important part in every business enterprise, and the nursery industry is no exception. With the gradual increase in production costs and a lag in consumer prices, it is becoming increasingly important for the nurseryman to keep a sharp watch on production efficiency. Preventable losses must not be tolerated, particularly if they can be prevented from developing at a reasonable cost to the grower.

Production of unsalable plants constitutes a direct financial loss. There are other losses, however, which are more gradual in occurrence but may have an impact just as great.

A high standard of plant quality is a goal sought by all progressive nurserymen. Nematode infection can reduce the quality of plants to the

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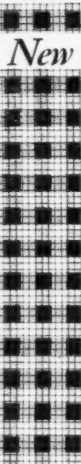
NEW, MODEL 20 CYCLONE SPREADER (left). For fast, precision spreading of pelleted and granular fertilizer and chemicals . . . also seed. Capacity 3 gals. or approximately 20 lbs. Rate chart lists brand names and gauge settings for recommended applications—4 oz. per 1000 sq. ft. to 375 lbs. per acre. Shield protects operator. 5 to 8-ft. spread. Ideal for seeding small lawns.

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point of unsalability. Total crop volume may be reduced significantly by nematode attack, which may occur any time from the seedbed through field planting. Quarantine restrictions on ornamental plants are becoming tighter every year. A quarantine and plant destruction order can mean a loss of many thousands of dollars to a nurseryman.

A good reputation is an essential ingredient in a good business. A nurseryman does not need to sell many nematode-infected plants of poor quality, which naturally fail to thrive as expected, before his reputation starts to slip and his business begins to suffer. The cost of preventing these unpleasant situations from occurring is really quite nominal.

The cash invested in a nursery crop at any point during its nursery life will vary greatly with the variety of plants involved and the nursery operation itself. The investment is sizable, however. Nematode infection may put this entire investment in jeopardy and also eliminate the possibility of realizing a profit on the operation. The cost of nematode control is low in proportion to the size of the grower's investment in land, labor and plants.

Clean Lining-Out Area Needed

One must assume that the majority of nurserymen sterilize their rooting and potting media. This provides clean plants to go into the lining-out beds. If these beds are nematode infested, however, the young stock will become infested, will not do well when transplanted to the field and will likely either be unsalable or be quarantined and destroyed. A lining-out bed can be fumigated for approximately \$1 to \$5 per hundred square feet. This is a pre-plant application and will go a long way towards insuring clean stock for the field.

Fields may be pre-plant treated for as little as \$30 per acre chemical cost. Application equipment may cost from \$50 to \$500 or more, depending upon the size of the operation and the complexity of the equipment. The equipment, however, is reusable and can be depreciated over a long period of time.

A pre-plant field fumigation will drastically reduce the nematode population, but will not completely eliminate it. Within a year or two the surviving nematodes will have produced enough progeny to become a potential hazard to ornamental plants. As a general rule, all infested fields should be fumigated

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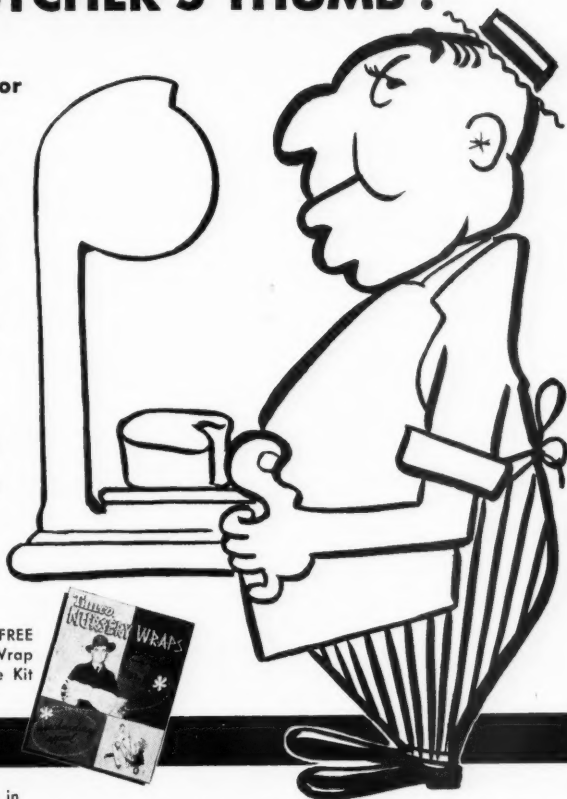
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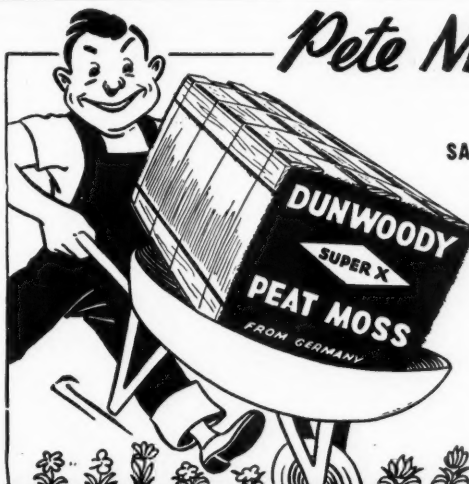
prior to the planting of a new crop if previous fumigations in that area have proved beneficial.

Cost Per Acre

When a nematode problem has been present and plants remain in the field more than one year, it is frequently advisable to add a post-plant application to the schedule. The chemical cost of this operation would be somewhere between \$60 and \$80 per acre. On an acre basis, this means that the grower can be relatively certain of having a high-quality, clean and salable product for a chemical cost of from \$100 to \$140 per acre. This seems to be reasonable insurance on a crop which at sale time may represent an investment of \$5,000 to \$8,000.

Although there now are economical and practical methods for nematode control, it is not advocated that every nurseryman institute a full-scale program immediately. The type and extent of a control program must be determined on an individual basis. The small-plot technique for problem definition is highly recommended. Plant top and root examination, as well as soil assays, can also contribute somewhat to a clarification of the

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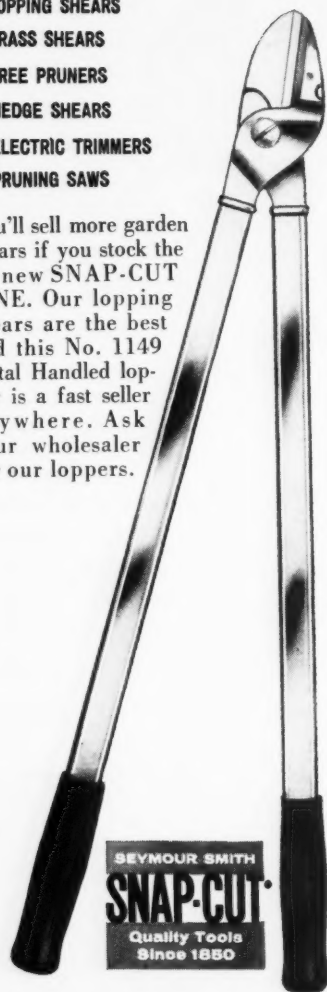
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problem. Experiment station and extension service personnel are usually available and can give valuable advice and suggestions. The control program can be tailored to fit the situation once the problem has been defined.

Vigilance Essential

It is possible that some nurseries or areas within a given nursery may not have a nematode problem at the present time. Although this is encouraging to the grower, constant vigilance is required. The absence of a nematode problem today in any given area does not preclude the possibility of one's developing during the next few years. A grower must be continually aware of the nematode situation and take precautionary and/or corrective measures whenever they are indicated.

In summary, it may be said that nematode attack has a far-reaching impact on the ornamental nursery industry. Techniques are available for determining the presence and intensity of nematode problems, and materials and methods are available for preventing or correcting undesired situations. Nematode control is not a costly operation, and its benefits are far reaching. An awareness of the problem and the instrumentation of control practices must of necessity become a part of the ornamental nursery operation.

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3. Somerville, A. M., Jr.; V. H. Young, Jr., and J. L. Carnes. 1957. Occurrence of plant parasitic nematodes in soil and root samples from declining plants in several states. Plant Disease Reporter 41:3, 187-191.
4. Tarja, A. C. 1951. Observations on nematodes associated with decline of ornamental plantings. Plant Disease Reporter 35:4, 217-218.

ROCK CREEK park at the nation's capital will be extended near Rockville, Md., by purchase of 70 acres presently occupied by the Rock Creek Nursery, owned by Milo G. Coplen. The reported purchase price was approximately \$312,000.

ADDITION of Marty Gardens Nursery to the business conducted as Marty Gardens Florist at Sacramento, Calif., has been made by Donald B. Marty, a recent University of California graduate in horticulture.

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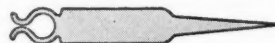
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Tests Reveal That Sugar Is Effective Nematode Killer

Ordinary sugar is one of the most effective nematocides ever tested, according to a recent report from the horticultural field laboratory of the United States Department of Agriculture at Orlando, Fla., published in the March, 1961, issue of the department's periodical, *Agricultural Research*.

After being mixed with nematode-infested soil, at rates of 1 to 5 per cent by weight, sugar killed up to 100 per cent of the nematodes within 24 hours. Destruction was so complete that no microscopic trace of the nematodes could be detected.

These findings, by an A.R.S. plant pathologist, W. A. Feder, and associates, are the first demonstration of nematocidal activity in a material not generally classed as toxic. Dr. Feder says the sugar kills the pests by increasing the osmotic pressure of the soil solution in which they live. He explains the killing process this way:

Enough sugar is added to the soil to produce a greater amount of dissolved solids in the soil solution than in the cell fluid of the nematodes. Because liquid tends to move from a less concentrated solution to one more highly concentrated (osmosis), the body fluid moves out of the nematodes, and they die as a result of dehydration (exosmosis).

From tests carried out by adding sugar to samples of nematode-infested soil of varying moisture contents, it was found as the amount of moisture went down, sugar concentration and nematode mortality went up.

Dr. Feder concluded that the addition of specific amounts of sugar to nematode-infested soils of known moisture content will result in predictable percentages of nematode kill.

Greenhouse and field tests confirmed these laboratory findings. Okra, corn, Duncan grapefruit and sour orange plants grown in nematode-infested soil, to which sugar had been added before planting, had roots that were free of nematodes. (The nematode species included parasites such as burrowing, citrus, lesion, awl, sting and root-knot, as well as nonparasitic, free-living nematodes.) The amount of sugar required varied with the amount of moisture in the soil at time of treat-

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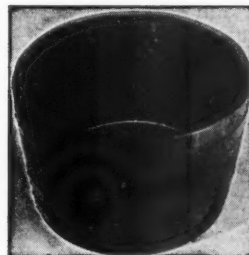
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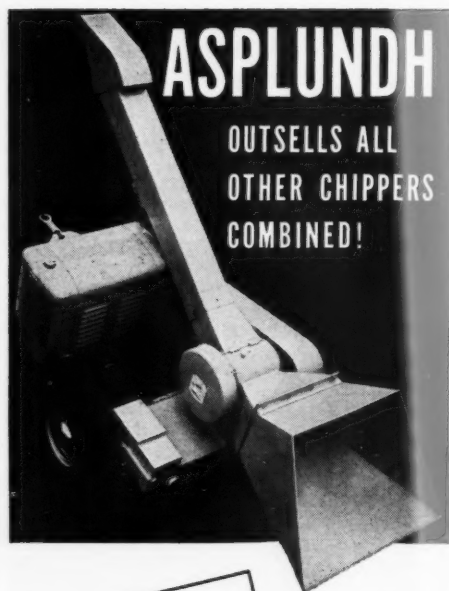
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ment. With soil moisture at 1 to 2 per cent, for example, 1 per cent of dextrose effectively reduced root-knot nematodes on okra.

Since sugar is nontoxic, readily available and relatively inexpensive, it may offer a practical means of controlling nematodes in many areas. Research now under way may reveal other compounds that are equally effective when used at lower application rates.

VINES FOR ENTRANCES

[Continued from page 13]

purpose with excellent results. Included should be Hetzi holly, convex-leaved holly (*Ilex crenata Convexa*), rock cotoneaster, early cotoneaster (*C. adpressa praecox*), glossy abelia (*Abelia grandiflora*) and such flat-growing junipers as Sargent (*Juniperus chinensis sargentii*).

Another possible treatment for a location like this—and it might well be used on terraces, too—is to train potted vines and espaliered shrubs on a standard and then sink them below ground, pot and all. The plant can be lifted and another used in its place. By such a practice, variety is achieved, and one can take advantage of the flowering of some plants and the fruiting of others.

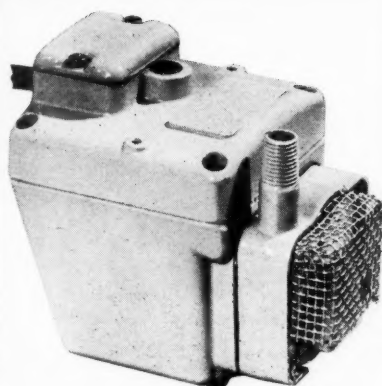
A variation of texture, leaf form and glossiness can also be enjoyed. The problems that one must cope with are keeping these container-grown plants from becoming pot-bound and making sure they are carefully pruned, watered and adequately cared for during the winter period.

In a thickly grown planting of a single type of ground cover like Baltic ivy, one may achieve variety by inserting potted geraniums beneath the cover, or some other colorful container-grown flowering plants. These can be changed several times a year and may be foliage as well as flowering plants. Caladiums, with their colorful leaves, tuberous-rooted begonias and many others could be used.

Large-Flowering Vines

A coarse-flowering vine can also be selected to provide contrast and interest to a garden or terrace. The term coarse-flowering is used to denote a vine bearing flowers that are unusually large for its own foliage or for that of the surrounding plants. The Mme. Galen trumpet vine (*Campsis tagliabuana Mme. Galen*) is a good example of such a vine. Its single flower, shown in illustration G, is large but effective.

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with large yellow flowers is Allamanda cathartica. This vine cannot be grown successfully where temperatures drop below 50 degrees Fahrenheit. The leaves are large, leathery and glossy and are attached to rather ropelike stems.

It is evergreen, and the variation most commonly found in the trade is hendersoni, which has flowers four to five inches across, produced profusely over a long period of time. This twining vine is found only in conservatories or greenhouses in the northern states, but it leaves a lasting memory once one sees it with a profusion of rich, yellow flowers. Illustration H shows its flower formation.

Vines as Ground Covers

Vines also make excellent covers for slopes or banks and often become doubly interesting when they are allowed to spill over a retainer of locust logs. Illustration I shows Kirschner ivy as a profuse ground cover, tumbling over the logs that are used to retain the soil. This variety (Hedera helix Kirschner) is a fast-growing form that is similar to many other English ivy variations in appearance.

The regular English ivy (Hedera helix) can also be used, and even on fairly steep slopes, such as the



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one pictured in illustration J. In this particular location, the vines are left pretty much to themselves, except for an occasional weed pulling.

Vines like English ivy provide a distinct contrast with the foliage of surrounding shrubs, and this contrast can be highly desirable for landscape interest.

Vines and shrubs trained like vines (espaliers) have many more uses than occur to most persons. They can be adjusted to various forms and guided to give a feeling of motion. Vines can be encouraged to develop as a loose shrub or even trained to become a most useful hedge.

MIDDLE TENNESSEE MEET

The Middle Tennessee Nurserymen's Association met at the Hillcrest motel restaurant, McMinnville, Tenn., March 16, with about 25 nurserymen present. A representative of the E. I. du Pont de Nemours & Co., Inc., Wilmington, Del., instructed the group on nematode control and recommended that all nurserymen selling peach trees in the Fort Valley, Ga., area treat the soil before planting peach seeds next fall. He pointed out that trees damaged by nematodes bear fruit four to eight years in the orchard and then die. Healthy trees bear fruit for 20 years or longer. It was also brought out that rootstocks are being affected.

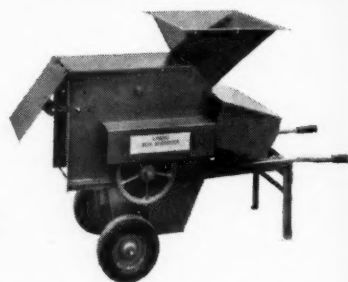
Ray Thompson, Tennessee state plant inspector, reported on the treatment of nurseries for Japanese beetle control and stated that the Tennessee department of agriculture will aid the nurseries in the treatments. This is a precautionary measure, as no Japanese beetles have been found in the McMinnville-Warren county area, but they are in nearby sections of the state.

President Goldie Bouldin, Planters Nursery, McMinnville, told the group that the McMinnville Garden Club is interested in the project of landscaping all the highways leading out of the city, in co-operation with the nurserymen, chamber of commerce and Tennessee department of highways. Robert Goodpasture, roadside planting engineer of the Tennessee department of highways, is now working on plans for developing Warren county roads. Each nurseryman in the area has agreed to donate 100 trees to start the project.

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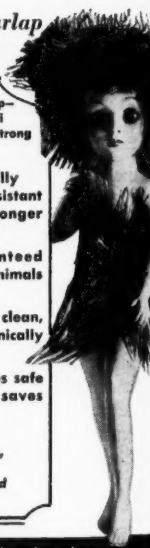
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OBITUARY

William A. Frankenbach

William A. Frankenbach, 67, a partner in the nursery, florists' and landscape gardening firm of C. E. Frankenbach & Sons, Southampton, L. I., N. Y., died unexpectedly March 16 at the Southampton hospital.

Born at Southampton, Mr. Frankenbach attended local schools and worked for various florists, nursery and landscaping firms in New York and Long Island. He enlisted in the United States Marine Corps and served overseas in World War I. Upon his discharge from service he joined the firm that had been founded by his father in 1910. After his father's death, in 1920, Mr. Frankenbach and his brothers assumed control of the business, and at the time of his own death he was operating the firm in partnership with his brother Philip.

He was a member of the New York State Nurserymen's Association, the Long Island Nurserymen's Association and the New York State Flower Growers' Association. He was an active member of the American Legion and an Elk and had directed numerous charitable and fund-raising campaigns in his community. Surviving are his widow, Leona; two daughters; a son, William A., Jr.; three sisters, and five brothers.

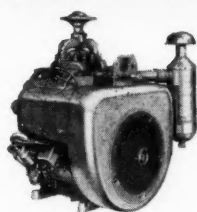
Walter W. Balzer

Walter W. Balzer, landscape architect and owner of Walt's Third Avenue Nursery, Spokane, Wash., died recently at a local hospital at the age of 60. He planned the Stevens county courthouse landscaping at Colville and in 1935 won a national award for garden design. A native of Spokane, he was the son of the late E. C. Balzer, a local nurseryman.

Surviving are two brothers, C. Norb. C. Norb Balzer Nurseries, and A. Edward, both of Spokane, and a sister, Mrs. Elsie McGlasson, Los Angeles, Calif.

Charles A. Meyer

Charles A. Meyer, owner of the Aurora Nursery, Aurora, Colo., died February 27 at the Rose Memorial hospital as a result of injuries received in a recent automobile accident. He was 82 years old. Mr. Meyer had lived at Aurora since 1909 and had been a resident of the Denver area since 1888.



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Maple Diseases and Their Control

Reported by Andrew T. Leiser

Diseases of the genus acer and its identification were the themes of a group of discussions featured Thursday afternoon, January 5, on the program of the Indiana Arborists' Association's midwinter conference held January 4 to 6 at Purdue University, Lafayette. A general report of the conference was given in the February 1 issue of the American Nurseryman.

Giving a thorough coverage of the problem of "Maple Blight" was R. L. Geise, department of entomology, Purdue University. Dr. Geise showed slides illustrating the progressive symptoms of the disease. He reported his experiments on the effect of defoliation on maple trees, which indicate that early defoliation allows more complete recovery than late defoliation. In the case of late defoliation, partial or total death of the tree or tree parts results. The death or dieback of twigs was correlated with the early defoliation.

Maple trees are susceptible to severe injury from defoliation between June 2 and August 25. Correlated experiments have shown that yellow birch and ironwood are susceptible to the same type of dieback, but basswood appears to be unaffected by defoliation. Dr. Geise pointed out that it does not matter if a tree is in a forest or grown in the open as far as susceptibility is concerned. The experiments show that insects that cause severe defoliation of maple produce typical maple blight symptoms and that to control maple blight one must control the insects.

In the discussion that followed Dr. Geise's presentation, it was brought out that the elm-leaf beetle no longer limits its feeding to the elm and should be controlled.

Foliar Disease

The next speaker was Dr. J. C. Carter, plant pathologist, University of Illinois, Urbana, who continued the maple theme by discussing foliar diseases of this genus, both infectious and noninfectious. He divided the infectious diseases of maple leaves into four principal groups, namely—powdery mildews, leaf spots, anthracnose and leaf blisters.

Powdery mildews are diseases that cause a powdery gray deposit on the upper side of leaves which turns to a tan late in the season, when the areas may exhibit black fruiting bodies. The control suggested by Dr.

Carter was the use of sulphur fungicides.

The leaf spots may be caused by a great number of fungi, but most of them can be controlled by spraying with copper or Bordeaux. Anthracnose is another class of leaf spot, typified by a blotchy pattern. This disease develops during the cool, wet weather of the spring at the time of leaf expansion, and sprays must be applied at this time to be effective.

Leaf blister, a rather unusual leaf disease of maples, was described by Dr. Carter. The disease, which is similar to peach leaf curl and is caused by a species of traphina, must be controlled by a dormant lime-sulphur spray as the buds are swelling.

The noninfectious diseases described by Dr. Carter have also been called physiological disorders, such as scorch, which is caused by excessive water loss. A characteristic of this disease aiding in diagnosis is the fact that veins remain alive while the margins and tips of the leaves die

first, leaving a typical pattern. Low temperatures (near freezing) early in the year cause necrotic, or dead, areas in a flecked pattern. In older leaves these areas appear near the base or the midribs, and the leaf around these areas often contains callous tissues. Dr. Carter also showed slides illustrating what was thought to be malathion injury on maples and mechanical injury caused by insects, man or hail.

In the question period that followed, Dr. Carter was asked if he could differentiate between scorch and anthracnose. He stressed that in scorch the tips, the margins and the areas between the veins are affected, while in anthracnose the affected parts of the leaf cut across the veins. Anthracnose diseases usually fruit along the margins or edges of the veins. These fruits are light colored. He also stressed that leaf spots may often have fruiting bodies in them.

Dr. Ralph Green, botany and plant pathology department, Purdue

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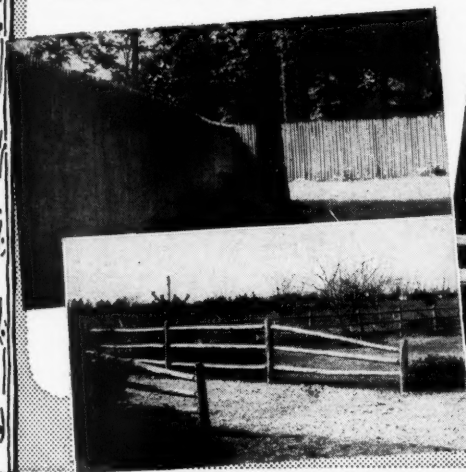
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University, discussed trunk and root problems of maples. He pointed out that attempts are made to grow a great many shade trees in artificial conditions. The trees are often injured by the digging of utility companies, by heavy pruning and topping and by bark and trunk wounds resulting from a multitude of causes. Dr. Green discussed a number of disease problems, beginning with twig and branch cankers that cause a dieback of the younger parts of the tree. These result in sunken, discolored and sharply defined cankers, which are usually annual in nature and do not continue to grow. These cankers are caused by various species of the genera *Phoma*, *Phomopsis*, *Phaenopsis* and others.

Dr. Green continued his discussion of maple diseases with a comparison of two types of trunk cankers. The first of these is the perennial canker, which rarely girdles or kills a tree but reduces its strength and causes considerable damage to affected parts. Called European canker, it is caused by the fungus *Nectria* and is especially severe on red maple, aspen, beech and birch. The treatment of this type of canker is to prune and paint the affected parts.

Root and trunk rots and cankers

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can be particularly severe on Norway and red maples. These are basal cankers caused by *Phytophthora cinnamomi*, and bleeding is often associated with them. The wood is stained brown to black, and this type of canker involves the root or soon girdles the tree.

Decline and Wilt

Dr. Green stated that decline of maples is often associated with the fungus disease called shoestring root rot. The best control is maintenance of high vigor in the tree. Once early infection is discovered, the soil may be removed from the root collar and the infected area may be pruned away and painted with suitable tree

paint. It is best not to cover the area until fall, at which time clean soil should be used. Once a tree has died from shoestring root rot, Dr. Green pointed out, the replanting problem is serious. Chemical sterilization of the soil area is feasible with formaldehyde diluted one part to 50 parts of water or fumigation with suitable soil fumigants. It is difficult to find species resistant to shoestring root rot.

Dr. Green discussed the maple wilt, or vascular wilt, disease at some length. This disease, caused by the fungus *Verticillium*, will attack most maple species, although the soft maples may be more susceptible. The disease may be recognized by the

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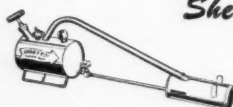
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typical wilt symptoms and by the olive-green to greenish-black staining of the vascular tissue of twigs and limbs. In the past, Dr. Green stated, nitrogen fertilization had been recommended to assist the tree in outgrowing the disease, but he expressed the current belief that this might not be a reliable treatment.

Dr. Green, in closing, mentioned heart rots briefly and described some of the conks produced. He stated that this type of disease is not a serious problem in Indiana. Dr. Green recommended two books for additional information of the arborists, the new edition of "Diseases and Pests of Ornamental Plants," by Pirone, Dodge and Rickett, and the new revision of Dr. Pirone's book, "Maintenance of Shade and Ornamental Trees."

Following Dr. Green on the program was Dr. Andrew Leiser, horticulture department, Purdue, who conducted a session on identification of some of the common maples. Dr. Leiser distributed a key which permits arborists to identify most of the common maples grown in the mid-west from vegetative (leaf and twig) characteristics. A review of some of the technical nomenclature used in the key was followed by a brief session in which several common maples were processed through the key and during which both the method of using the key and the highlights of identification were pointed out.

NURSERY WEED CONTROL

[Concluded from page 11]

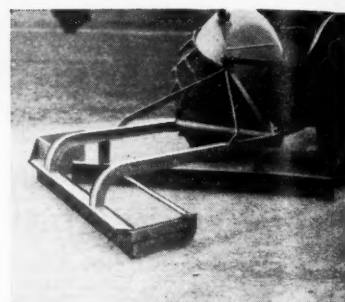
and the chemical applied in a band near the plant.

Some questions the nurseryman should ask himself are: Why do I cultivate when there are no weeds? Are the wide rows formerly used necessary with good weed control? Could my cover crop actually consist of more ornamentals?

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BUILDING a new garden center near Owatonna, Minn., is Jim Mitchell, Mitchell's Flowers, Owatonna. Construction includes a 20x100-foot building housing an office and storage room and a 32x100-foot plastic greenhouse.

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NEW BULLETINS

CONSUMER SURVEYS

The consumer survey undertaken in the southern field, just published, is in the form of a 28-page, 8½x11, mimeographed pamphlet, "Economic Analysis of the Consumer Market for Woody Ornamentals," by J. H. Padgett and T. D. Aaron, assistant agricultural economists, mimeographed series NS 108 of the Georgia agricultural experiment stations, published at the University of Georgia, Athens, Ga.

Those wishing to study the preliminary report from a consumer survey in the northeast, from which the figures reported on page 8 of the March 15 issue of the American Nurseryman were cited, may be able to obtain it in a mimeographed pamphlet of the same size, prepared by Ronald Gatty, of the department of agricultural economics at Rutgers University, New Brunswick, N. J. He delivered an oral report at the annual meeting in January of the Eastern Regional Nurserymen's Association.

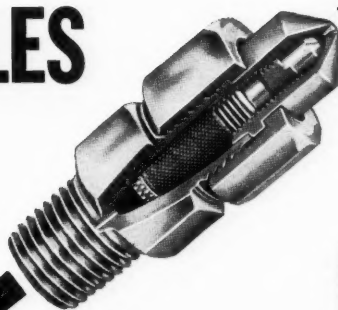
LARCH SAWFLY

One of the pests which prevents the more general planting of a graceful evergreen tree, the larch sawfly is its most destructive insect enemy and a potential threat to the forest plantings of the larch that remain across the nation. Hence, technical bulletin 1212, by A. T. Drooz, just issued by the forest service of the United States Department of Agriculture on "The Larch Sawfly, Its Biology and Control" comprises a pamphlet of 52 pages, packed with information compiled about this pest, together with an index of over six pages to the literature cited in the contents.

ZIMMERMAN PINE MOTH

Greater prevalence of the Zimmerman pine moth in the midwest has been the basis for extended research on the problem and its publication in research bulletin No. 698 of the agricultural experiment station of Purdue University, Lafayette, Ind. The author, Donald Schuder, of the university's entomology department, has conducted considerable investigation of the matter and relates his findings, along with data from an extended bibliography on the pest, concerning distribution, hosts, injury,

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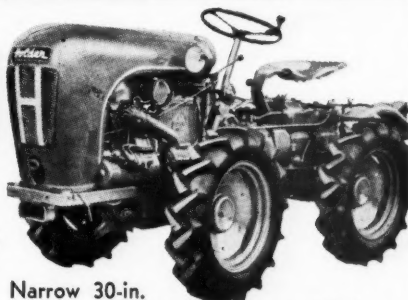
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66	6	5	6	200	28
76	7	6	6	100	18
79	7	5-1/2	9	100	25
86	8	7	6	100	20
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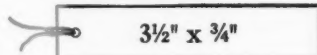
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life history, ecology and controls. Pruning and spraying with DDT are the recommended controls given. Illustrations depicting the pest and the injury caused add to the text. Growers of Christmas trees should find the 8-page bulletin especially valuable.

TEXAS LANDSCAPE PLANTS

Texas nurserymen as well as homeowners will find helpful for reference a 16-page bulletin, "A Selected List of Woody Plants for Texas," by A. F. DeWerth, bulletin MP-455 of the Texas agricultural extension service. It contains a list of vines, ground covers, shrubs and trees, according to sizes, with an indication as to the zone of hardiness and other data, including both common name and scientific name.

IOWANS' SHORT COURSE

[Continued from page 9]

chandise he offers by the total number of families located in the market. Of course, the extent of inventory carried, location of the store, competition and other factors must be taken into account in the preparation of this estimate.

The second step in developing an advertising program for the garden store is to set up a systematic program, complete with the sum of money one intends to spend and where he intends to spend it. Although there are many plans for determining the amount to spend on advertising, one of the simplest uses a per cent of sales figure, which for the typical retail or service business varies between 3 and 5 per cent. Mr. Kunerth suggested an allocation between 2 1/2 and 3 1/2 per cent, plus a reserve of about one seventh of the total advertising budget.

After the size of the budget has been determined the next step is to allocate the expenditure seasonally or by the month. This distribution should be plotted so that it follows the sales curve of the business. He emphasized the fact that the garden center should spend the most advertising dollars during the period in which the customers are in a buying mood, not as a sales aid to stimulate trade at a time when business is slack.

Mr. Kunerth showed that in a business as seasonal as the garden center's, it is easy to underpromote during the peak period. This is likely to happen because a representative advertising expenditure for a peak month, expressed as a percentage of total sales, appears ex-

NEW FOR '61! HABITANT FENCE



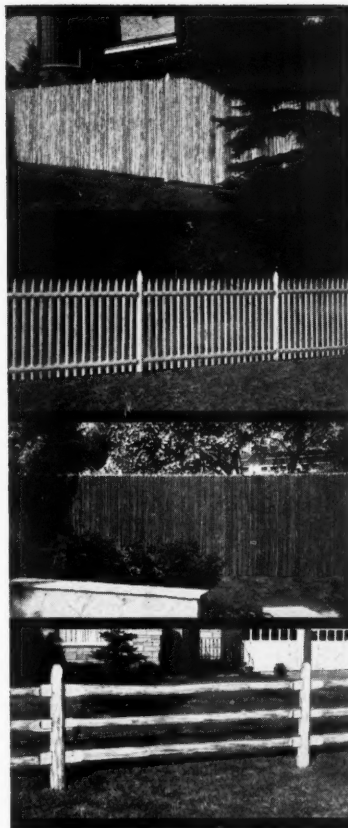
FEATURES
**REYNOLDS
ALUMINUM NAILS!**

ANOTHER FIRST FROM HABITANT . . . the leader and the most respected name in wood fence. Now you can offer your customers all the beauty and character of wood fence — and guarantee its beauty for life, maintenance-free! No streaks, stains and discoloration from rusted nails! Habitant, with the most complete line of time-proved designs, now is more desirable than ever with weatherproof Reynolds Aluminum Nails. Note: Habitant Fence is regularly assembled with galvanized nails; aluminum nails when specified, per current price list.

Thirteen styles, factory-fabricated of Michigan White Cedar — in sections to exactly fit your ground plan. Fast, easy installation. Get those extra profits without inventory, without investment. Sell Habitant! The best known rustic fence in the country.

LIMITED DEALERSHIPS AVAILABLE. SEND FOR CATALOG AND DETAILS

HABITANT FENCE, INC., BAY CITY 3, MICHIGAN



DEFENDER
STOCKADE



PARK AVENUE
"MILLED"
PICKET

MACKINAW
BARK
PICKET

WESTCHESTER
LAP RAIL

travagant when compared to what other businesses are doing at the same time. But there are months in which a garden center's revenue is less than 1 per cent of its total sales, and other months in which over 25 per cent of the total annual gross is realized.

Effective Copy Planning

After the operator has decided the sum to spend and when and where it is to be spent, he must devote some time to developing the advertising message. Most retail advertising suffers because the copy is dull, too general and far from complete. It was noted that a disinterested reader might skip over a long block of copy, but one who is in the market for the product the garden center is advertising is likely to read a rather lengthy advertising message, if it contains information which is of interest.

In discussing the development of an advertising program, the speaker stressed the importance of simplicity in designing the layout of advertisements. He concluded his discussion by saying that if he were given the responsibility of developing an advertising program for a garden store he thought that he would put about 60 per cent of the



Because you can't depend
on rain . . . depend on
WADE RAIN
SPRINKLER IRRIGATION
MUELLERMISTER IRRIGATION
SUPPLY CO.
P. O. Box 471, Maywood, Ill.

POLY-TAINERS

For Growing Quality Nursery Stock
PRACTICAL—ECONOMICAL—EVERLASTING
SEND FOR COMPLETE INFORMATION
Native American Holly Farms
115 S. Penn St. Manheim 10, Pa.

GRO-BEST Formula G-73

16-40-17 INSTANT PLANT FOOD
Less Likely to Burn
Suggested retail, 2 lbs. for \$1.89.
HOFF CHEMICAL CORP., Flat Rock 5, Mich.

emphasis on price and item advertising and about 40 per cent on educational or informational advertising.

Dr. Harry Heath, also of the journalism department, followed with a discussion of "Writing Copy That Sells." He stated that copy alone is not enough to create a desire to buy. The garden store operator must have a good product to write about, it must be for sale at a competitive price and it must be

BRODLEAF

Imported Holland
PEAT MOSS



Roots screened out
You get the
best part — the Peat Flakes!

OUTDOOR BAMBOO
BLACK AND CLEAR
POLYETHYLENE

HOLLAND BURLAP
SQUARES - 4 Grades

- Boskoop
- Standard
- ROT-NOT
- VIKING WRAPS

HALF

MOON

MFG. & TRADING CO.
90 West St., New York 6, N. Y.
Address all correspondence to:
Box 27, Plainfield, N. J. PL 5-8228

presented at the right time for use.

Copy must fit the medium used. For example, the message in a direct-mail ad might be phrased more personally than the copy for a newspaper ad. A run-of-the-paper ad should be written differently than one the garden store operator places in a special garden or landscape section. Dr. Heath stated that the choice of medium and what the advertiser knows about his audience will determine the approach he



Fog-mist NOZZLE

for Propagation and Humidity Control

**LONGER LIFE
PRECISE PERFORMANCE
BEST NOZZLE ANYWHERE**

- Stainless Steel Orifice Insert
- Stainless Steel Target Screw
- Monel Metal Cylindrical Screen
- Phosphor Bronze Alignment Brackets

Nozzle No.	Orifice Size	At 20-lb. pressure Diameter G.P.M.
550-A	0.28 in.	5 ft. .1

\$2.95 each. One dozen, \$23.60 each. Postpaid with check or money order. Guaranteed. 3% tax in Florida.

SPRAYERS & NOZZLES

2575 28th Ave., No. ST. PETERSBURG 4, FLA.

OFFER THE BEST TO YOUR CUSTOMERS!



New

BORGOS

BARK-PENETRATING BORER KILLER

BORGOS, an amazingly effective, scientifically developed product so advanced it has no competition, penetrates through the bark to kill the borer, eggs and larvae working in the cambium and phloem layers of deciduous, broadleaved and coniferous plants. Safe, proven, easy and economical to use, it acts as a preventative as well. Excellent mark-up to bring you high profits. For further information write Dept. D.

THOMAS ENTERPRISES, INC.
4801 S. Peoria Tulsa 5, Okla.

takes. Good copy, regardless of the intent, must do three things: It must convey a thought, it must communicate a feeling and it must promise some benefit to the reader. The words chosen should keep ideas moving, paint a word picture, make the meaning clear and be smooth and easy to read.

Professor Heath suggested that when a good idea strikes one, it should be recorded on the spot. An idea notebook should be kept for recording catchy phrases or novel ideas that the operator happens to run across at meetings or during his everyday course of business. If a person waits to put an idea down, he may never catch the mood in which he obtained the idea originally.

The speaker suggested that the garden center operator should exploit the magic of the word "spring" in advertising; that he should think less about such over-worked phrases as "science develops" or "blooms by the thousands" in display lines and start hitting "family fun," "togetherness" and "outdoor vigor."

In summarizing, Dr. Heath listed some of the most important advertising pointers determined by a major home service magazine for use in writing display lines as copy themes. These were (1) stress the how-to-do-it angle, (2) make specific promises on service, (3) use "new" and "news" as interest words, (4) time the ad right, (5) use "you" and "yours" to bring the reader into the picture and (6) keep the technical words to a minimum.

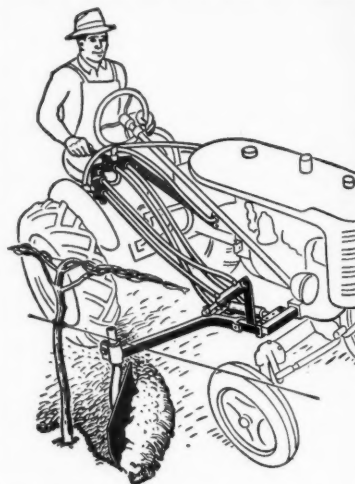
Choosing the Medium

Wayne Ferris, Earl Ferris Nursery, Hampton, Ia., then discussed the topic of "The Best Medium." The speaker developed the considerations that should be taken into account before one selects a specific medium of advertising. In considering county weeklies, the operator should first learn their circulation and the type of copy that they are carrying. If local merchants cannot make the paper pay and the circulation is limited, spending should also be limited. On the other hand, if the newspaper carries considerable local advertising and the circulation is good, one should consider it, providing it is in the sales area. As for city dailies, Mr. Ferris noted that the spot in the paper should be selected carefully.

He said that many large circulation magazines are now so divided that one can place an advertisement to appear only in copies of the magazine sent to a particular region

GREEN'S TRACTOR HOE

Manual or Hydraulic Control



Green's Tractor Hoe will save you time and money. One man can do the work of many. Fits most makes of tractors.

Send for free literature.

HOWARD C. GREEN MFG. CO.
Portland, N. Y.

GARDEN CLUB SHRUBBERY PROTECTOR



SHRUB-GARD

An invention that protects your shrubbery from the menace of destructive corrosive action caused by dogs. Makes the dog's visit so uncomfortable that he keeps away, yet it is so constructed that it will not harm the dog. The SHRUB-GARD is a unit of steel spring wires that are flexible and will not tear clothing of passers-by. Each SHRUB-GARD has three prongs and covers approximately two and one-half lineal feet. Harmless to dogs or humans. Packed one dozen to a carton, weight 2 lbs. Retail price \$3.85 per dozen.

Write for Discounts
THOMAS J. MAGEE
631 E. WADSWORTH AVE. PHILADELPHIA 19, PA.

Mention The American Nurseryman when you write.

CUT WATER COSTS IN YOUR GREENHOUSE

Enjoy efficient, dependable, lowest-cost misting. Convert to

HUMIDOMIST

System For
I-N-T-E-R-M-I-T-T-E-N-T
MISTING

Circular #577A describes installation.
SUPREME ELECTRIC PRODUCTS CO.
194 Vassar St. Rochester 7, N. Y.

BURLAP

Paper Wraps • Shade Cloths • Poly Tarps • Saran • Nails • Twines
SEAMAN BAG CO.
2512 S. Damen Ave. Chicago 8, Ill.

of the country. Orders from such ads are steady, according to Mr. Ferris, and an operator should receive returns from them for a period of six to eight weeks, because people keep magazines and read them over a relatively long period of time. If the advertising budget of a salesyard is large enough, Mr. Ferris believes that the limited-circulation feature of the larger magazines is worth considering.

As for radio advertising, it has been Mr. Ferris' experience that the best time is before, during and after news or weather broadcasts. He cautioned that if one cannot buy the best time, he should leave radio and television advertising alone.

Direct-Mail Advertising

Direct-mail advertising has been one of the best advertising media for the garden center. The mailing list is the key to the entire program and usually is slow to evolve. The list must be constantly culled to eliminate names of people who have moved or died, or who, for any other reason, can no longer be considered as customers. If a customer does not buy in two or three years, Mr. Ferris suggested that his name be removed from the mailing list. The list should be checked occasionally through the use of some device offering a free package of seeds to customers who bring in a coupon from the mailing piece. Home shows, fairs and similar events offer excellent means for the garden store operator to contact customers he would not ordinarily reach. This technique is one way to start a mailing list, although cost of space, time involved in setting up displays and the like should be carefully evaluated in order to determine if the project is worthwhile.

Advertisements in school annuals and the like should not be counted in the advertising budget, because they are strictly donations and should be treated as such.

In concluding, Mr. Ferris suggested that the garden center operator should keep an accurate record of the results of his advertising. He noted that one method is to paste all ads and direct-mail pieces in a photograph album, noting the weather, date, placement of the ad, number of customers responding and other useful information that might aid one in doing a better job the following year.

Handling Stock

After the advertising panel, a series of talks was presented on handling the various types of plants

Tree Trimming Days Are Here!- Use **BARTLETT** for ease of operation and protection to the operator



No. 1-WSQ

The New No. 1-WSQ Tree Trimmer

The most powerful cutting tool of its kind ever produced. Compound Lever cutting head, pulley and rope action provide ample power for cutting branches up to 1 1/2 ins. with slight effort. The new No. 1-WSQ tree trimmer illustrated here-with is designed to meet the requirements of customers who prefer a square end pole. To do this we have produced a square end mount tree trimmer head. The No. 1-WSQ is equipped with a laminated Sitka Spruce Pole and can be supplied either in one piece or sectional poles.

No. 1-WSQ 8 ft., \$18.40
8-ft. Extension Section to Make 16 ft.—\$7.25

BARTLETT TREE PAINT

An asphalt-base wound dressing which promotes healing of tree wounds, affords long-lasting protection and is easily applied. BARTLETT TREE PAINT is now available in 12-oz. Aero-Pack cans. Just press the button and spray. Also packed in 1/2-pt., 1-pt., 1-qt. and 1-gal. cans for application by brushing.

12-oz. Can—\$1.95



No. 124B Special Utility Saw 24-in.



New fast-cutting saw with lightning teeth makes smooth cuts. Easily filed without gauges. 2 patterns, 24-in. and 26-in.

24 inch, \$8.60
26 inch, \$8.85
F.O.B. Detroit

BARTLETT MANUFACTURING CO.
3058 E. Grand Blvd. Detroit 2, Mich.
Catalog Free upon Request

TREES FOR AMERICAN GARDENS, by Donald Wyman. 745 recommended trees, 1600 species and varieties. \$8.00. American Nurseryman, Chicago 4, Ill.

Twine and Cordage
For All Nursery Requirements
GEO. B. CARPENTER & Co.
SINCE 1840
401 N. Ogden Avenue, Chicago 22, Ill.

PERFECTION MARKERS ARE BETTER
Early Sunrise GLADIOLI
for Park Trees, Display Gardens, Field use or Greenhouse Pots or Benches. Proven by thousands of users and every one a booster! You'll like them, too. They will stand for years at one marking, or may be changed any number of times for various markings. Send for catalog and prices of the complete **PERFECTION LINE**.
The S-W Supply Co., D. 33, Girard, Kan.


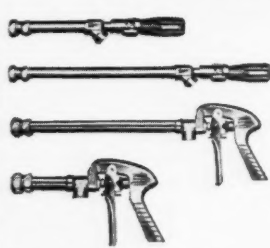
TINA, the brand recommended by the German Nurserymen's Association.
Request our illustrated catalog.
HERMANN A. WIRTH
Levittown, N. Y.

1 gal. to 2 1/2 bushels
big BAS-KITS
RD 1, NEW HOPE, PA.

SPRAYING SYSTEM CO.

GunJet®


SPRAY GUNS
for faster
more effective
tree spraying

See the complete choice of GunJet Spray Guns for every type of spraying. Interchangeable orifice tips for every chemical and spraying need. For pressures from 30 to 800 psi. Easy to handle, adjust and control.

* for complete information write for Bulletins 65, 69 and 80.

SPRAYING SYSTEMS CO.
3206A RANDOLPH STREET
BELLWOOD, ILLINOIS



You Can Learn LANDSCAPING

Increase your earnings! Develop a hobby!

Now you can learn landscaping in 8 to 12 months with this thorough, easy-to-follow method!

American Landscape School can teach you the newest, most modern landscape methods and trends... right in your own home! You'll study contemporary landscape and garden design, drafting, mapping and field work. You'll improve your knowledge of horticulture, construction, superintendence, salesmanship, office practices. 45 illustrated lessons, 9 valuable textbooks. Successful graduates throughout the world. 45th year.

FREE to all students:



- Dictionary
- Consultation service
- Monthly letter
- 50 imprinted business cards
- Drafting set free with advance full payment

Mail coupon for complete information.

AMERICAN LANDSCAPE SCHOOL

Accredited by National Home Study Council (Charter member)

Dept. 241-B, 4040 42nd St., Des Moines 10, Ia.
Please tell me how modern landscaping methods can increase my income.

Name
Address
City State

ONION BAG SHEETS

32 by 35 ins.

Suitable for balling evergreens, etc.
Cheap—8¢ each, F.O.B. Buffalo.

STERLING BAG & BURLAP CORP.

41 Carolina St.

Buffalo 1, N. Y.

carried in the typical garden center. Dr. Leroy Everson noted that the garden center operator has the opportunity to see the homeowner when he is ready to buy lawn seeds and is most receptive to good lawn-seeding suggestions. Therefore it is desirable that the operator be qualified to act in an advisory capacity in his own interest as well as that of his customer. If the operator does not have time to give personal advice to customers, Dr. Everson noted that he might help in other ways, such as sorting the lawn seed mixtures into two groups, one for fine lawns and the other for play areas or general-purpose lawns. Direction charts should carry information relating to the kind of turf that will be obtained, the rate of seeding and helpful hints on maintenance practices.

Dr. J. P. Mahlstedt, of the horticulture department, emphasized the need for recognizing plants as the perishable products they are. Techniques for disbudding root-wrapped roses, packaging dormant bare-root stock for the retail counter and maintaining container-grown and B&B stock in the garden center were discussed.

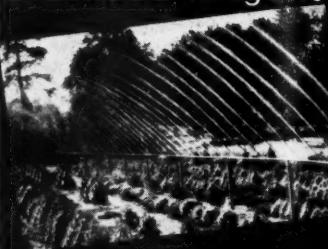
Salesmanship

After lunch, the group assembled to hear Dr. Tom Hannum discuss salesmanship. It was brought out in recent business surveys that selling is greatly underemphasized in many small operations. Salesmanship training often makes the difference between a mediocre business and a thriving concern in the community. Dr. Hannum pointed out that sales training need not be formal, since much can be gleaned from reading the trade magazines and other publications dealing with selling. But frequently the only sales training newly hired salespersons receive is five minutes of instruction on how to make out a sales slip and how to ring a sale on a cash register. The salesman must know everything about the product he is handling. If he does not, he will lack self-confidence and enthusiasm, which are necessary to move the product from the salesyard into the customer's car or yard. Dr. Hannum concluded by stating that good will is vital to any successful business and that one is better off losing a sale through honesty than ruining future sales by misrepresentation.

Lloyd Cafferty, Ames Nursery, Ames, Ia., rounded out the panel discussion by describing various techniques he uses to train new sales personnel. Mr. Cafferty has

SKINNER

overhead irrigation



Assures better, healthier stands
faster growth... bigger PROFITS!

FORGET DRY SPELLS. Your growing stock can have a shower of gentle, penetrating "rain" at the mere turn of a valve. Skinner overhead irrigation also gives you positive protection against frost... lets you control soil moisture for easy setting and transplanting.

free literature gives the full story.
Write for it TODAY.

SKINNER SYSTEM OF IRRIGATION The SKINNER IRRIGATION CO.
250 Water Street, Troy, Ohio
... for over a half century



BENT GRASS STOLONS

- Washington (C-50)
- Cohansey (C-7)
- Congressional (C-19)
- Arlington (C-1)
- Toronto (C-15)

True-to-Name, Weed and Seed Free!

Send for Free Literature

We Ship Anywhere in the United States
Phone: KE 1-0361

HIRAM F. GODWIN & SON

22366 Grand River Ave., Detroit 19, Mich.
A Reliable Source of Supply Since 1920

Dutch and Domestic BURLAP

PLAIN and TREATED

Established 1925

IMPORTERS—MANUFACTURERS

Distributors of Bird Pots,
Menne-Pots and Lerio Nursericans

J. SHORE & CO.
Chelsea, Mass.

Large or Small • Better Lawns • Lower Cost

LAWMAKER Model 67, 2 roller combination fertilizer spreader and seeder.

1. Extra large capacity hoppers.
2. Stainless steel to prevent corrosion and eliminate constant cleaning.
3. Trailer available to unload and load with tractor 3 point hitch.



HOME OF LAWNMAKER

A self-propelled highly maneuverable lawn machine that fertilizes, prepares a fine seed-bed, sows the seed, rakes in the seed and leaves the perfect finish for a beautiful lawn.

SEEDS ALL PLANTED AT UNIFORM DEPTH
NO FOOTPRINTS OR WHEEL MARKS

Write Today for Detailed
Information and Price List.

Lawnmaker
BRETTRAGER MANUFACTURING
5410 East St., Saginaw, Michigan
Telephone PL 2-3115

found that adequate and thorough sales training pays dividends in stimulating repeat business by a customer.

Management Symposium

A symposium on garden store management and stocking completed the afternoon program. Sam R. Zickefoose, superintendent of central stores at Iowa State University, opened the presentation with a discussion of small business management. C. B. Handy, C. P. A. on the staff at the university, reviewed some of the basic principles of accounting and demonstrated the interpretation of a typical balance sheet, a statement of capital and an income statement. The advantages a garden center operator might find in utilizing a commercial bookkeeping service were also pointed out.

Climaxing the program was a discussion of garden store stocking, presented by Vic Foster, Foster's, Inc., Waterloo, Ia. Mr. Foster stated that the volume of the garden store market amounted to \$4 billion in 1960, including expenditures for nine categories of merchandise, of which nursery stock, seeds and bulbs represented about 22½ per cent of the sales. The ninth and largest category included miscellaneous garden supplies and equipment handled by the garden store. This amounted to 37½ per cent of all sales.

The speaker pointed out that, although it might not seem to be pertinent, the cost of doing business is highly important to the garden store operator. The one basic figure that can be used to arrive

HANDY SUPPORTS



For Peonies, Tomatoes,
Delphiniums, etc.

Also Metal Label
Markers, Plant Stakes,
Lawn Guards, etc.

Send for folder on our
complete line of Ideal
Garden Gadgets.

LANSING SPECIALTIES MFG. CO.

Dept. A4261
918 Clark Rd., Lansing 17, Mich.

NURSERY TAGS

"Weather Resistant"

Size 1/2x6 Ins.	
Prices per 1000—Tag Stock	
1000 to 4000.....	\$1.35
5000 to 9000.....	1.10
10,000.....	1.00

- Made of Water-resistant Paper Stock
- 8 Colors Available
- 9 Sizes and Styles
- Sheets of Ten for Typewriting

Write Today for Prices and Samples

PREMIER SOUTHERN TICKET CO., INC.

P. O. Box 5 CINCINNATI 7, O.

BUDDING STRIPS

Headquarters for
GOODRICH BUDDING STRIPS
and
RAFFIA

A. A. Westcoast and
X. X. Superior

Can make immediate shipment.

THOMAS MEEHAN & SONS

Skippack Pike, R. D. 3
Norristown, Pa.

**A. M. & SON
LEONARD**

PIQUA, OHIO

Knives - Shears - Pruning Tools
Nursery Spades-Grafting Supplies
Write for Catalog



Does all tiller and tractor jobs.
Chain-gear drive gives equivalent of 2 extra h.p. Prepares toughest soil in one operation; tills up to 12" deep, 12" to 40" wide. Cultivates, mulches, weeds and does dozens of other jobs. Choice of models; rotors for every soil condition; drag tools & attachments.

Pat'd.
& Pats.
Pend.

Send for Free Folder!

MAIL TO: **MERRY TILLER, 1405 Northern Life Tower**
P. O. Box 1029, Seattle 11, Washington

Name

Address

City State

DEALER INQUIRIES INVITED

THE NEW JOHNSON WEEDER

Very practical. Designed for speedy removal of small weeds without injury to young crops. Blade made of high-quality steel. A weeder you will enjoy using. Price per dozen, 75¢ each. F.O.B. Ironwood. Write for new low prices on gross lots or more.

JOHNSON WEEDER

322 Douglas Blvd. Ironwood, Mich.

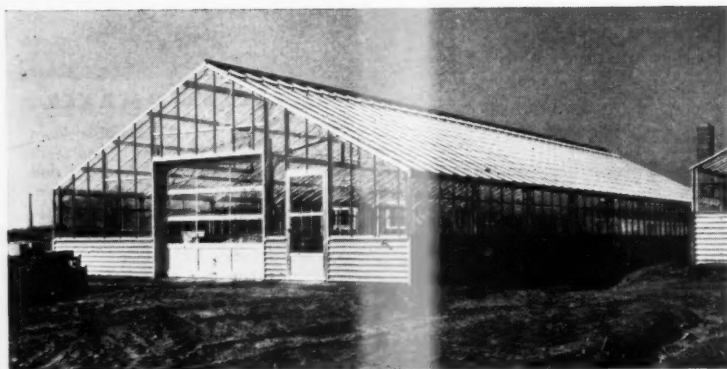
"MISTER 100"

MIST PROPAGATION NOZZLE—finest ever developed—wide coverage—flat plane of mist. Spaced 3 ft. apart—drilled and tapped holes—¾-in., 1-in. or larger pipe. Sample postpaid \$1.00. Satisfaction guaranteed. Send for your sample today.

WHITESHOWERS, INC.

17514 Woodward Ave. Detroit 3, Mich.

BUILD ONCE—WITH ALUMINUM BY NATIONAL



Aluminum, the bright modern metal, has been used by National for the best and most complete line of greenhouses ever designed. ALUMALITE GREENHOUSES by National are a joy to see and are probably more maintenance-free than you can possibly imagine.

A circular describing the complete line of ALUMALITE GREENHOUSES will be mailed on request without obligation.

NATIONAL GREENHOUSE CO.

402 E. Main

Pana, Ill.

Watch the RABBITS RUN AWAY from YOUR YOUNG FRUIT TREES!

MAGIC CIRCLE Rabbit Repellent

PROTECTS valuable plantings! CHASES rabbits FAST!

EFFECTIVE! One spraying can chase rabbits for several months.

ECONOMICAL! One gallon of concentrate makes ten gallons of spray.

SAFE! Will not harm sensitive plants.

SIMPLE! Easy to mix, easy to use.

FRIENDLY! Chases rabbits without harming them.

It's NEW from the creators of famous Magic Circle Deer Repellent. **BUY NOW!** Locally or write direct to the manufacturer for complete information.

STATE COLLEGE LABORATORIES,
Lepa A1 P.O. 492, State College, Pa.

DARLING'S

"Rite in the Rain"

WATERPROOF TREE AND PLANT LABELS

"Rite in the Rain" labels are not just another paper label. They are made of tough tagboard and chemically treated to make them waterproof. Ordinary pencil markings do not wash off. These are longer lasting yet low-cost labels. Millions are used every year by nurserymen.

Write for samples and prices.

J. L. DARLING COMPANY
BROWN'S POINT, TACOMA, WASH.

RA-PID-GRO

Makes More Money For You 2 WAYS!



1. Use it!
2. Sell it!

STOCK UP ON RA-PID-GRO NOW
RA-PID-GRO CORP.
Dansville, N. Y.

The Pioneer In Foliar Feeding

TREE MAINTENANCE

By P. P. Pirone

Originally published as Maintenance of Shade and Ornamental Trees, now reset and completely rewritten to bring it up to date. Contains new material and illustrations. Covers how to transplant, fertilize, prune, brace and spray. Modern machinery suggested.

Explains methods of detecting tree troubles. Summaries of tree diseases and insects. Trees suitable for various locations. 483 p. 3rd edition. (1959).

Postpaid \$10.00

AMERICAN NURSERYMAN
343 S. Dearborn St. Chicago 4, Ill.

at this figure is the square foot sales cost, which can be fairly easily determined. Mr. Foster showed that by this device the garden store operator might be able to eliminate some items from his stock that should never have been purchased. However, all slow movers are not necessarily to be removed from stock, since there are many items that are handled merely as a matter of store identity.

Another topic that was discussed by the speaker was that of turnover. There are two kinds of turnover that are of interest to the garden store operator; namely, capital turnover (net sales divided by capital investment) and inventory turnover.

Mr. Foster concluded by stressing the importance of inventory records. He noted that by maintaining a simple inventory record the operator can do a better job of buying and know which items do nothing but tie up money.

CARE WITH CHEMICALS

The introduction of chemicals into the agricultural field and into horticulture particularly has been marred, in almost every instance, by the mistakes of those who employed the chemical products without sufficient information or who did not exercise sufficient care in their application. Thus it was with fertilizers in early days, then with insecticides and fungicides, more lately with the root-stimulating hormones and recently in regard to weed killers.

The names of products suggested, and in some cases recommended, for the control of unwanted vegetation of various types seems almost endless. No one product seems to be effective for any number of weeds and at the same time harmless to the plant growth to be protected.

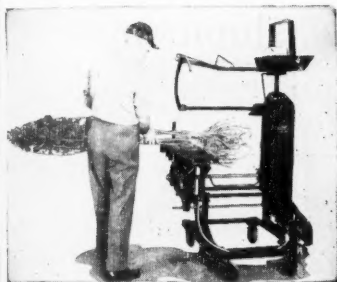
To those who know how to use them, there are many good and effective products. But those inexperienced should go slow in their application and make certain, by preliminary trials, that the right one is used at the proper strength and time.

IOWA-ILLINOIS ELECTION

W. I. Huddleston, Moline, Ill., was elected president of the Iowa-Illinois Association of Professional Landscape Men and Nurserymen recently. Others elected to serve the group were C. A. McCrory, Davenport, Ia., vice-president; William Koellner, Davenport, Ia., secretary, and Ralph Bingham, Moline, Ill., treasurer.

SAXMAYER NURSERY STOCK BUNDLERS

SPEEDY - SAFE - RUGGED



MODEL SRN

Uses jute or sisal twine to tie bundles automatically, up to 10½ ins. in diameter. Will tie in any sequence with one wrap and with a nonslip bow knot.

ALSO - MODEL EM

A light, speedy bench model using cotton twine for bundles up to 4½ ins. in diameter.

Our liberal trial period and guarantee insure you complete satisfaction.

LITERATURE ON REQUEST

NATIONAL BUNDLE TYER CO.

Dept. A
BLISSFIELD, MICH.

Top-Quality

Dutch and Domestic
**BURLAP SQUARES
TWINES
NURSERICANS**

Write for our low prices and samples.

HALPERN BROS.

1626 S. Delaware Ave.
Philadelphia 48, Pa.

PRONOUNCING DICTIONARY of Plant Names

64 pages, 3000 names, 25¢ per copy
American Nurseryman Chicago 4.

PLANT PATENTS

The following plant patents were granted recently, according to Rummler & Snow, Chicago patent attorneys:

No. 1999. Rose plant. To Eugene S. Boerner, assignor to Jackson & Perkins Co. A new and distinct variety of rose plant of the floribunda class, characterized particularly as to novelty by the unique combination of a compact and upright habit of growth, good hardiness, foliage usually composed of seven leaflets, a cupped flower shape, a continuous-blooming habit throughout the summer and a distinctive general color tonality of the flowers corresponding to marguerite yellow, lightly overcast with cosine pink.

No. 2000. Rose plant. By Eugene S. Boerner, assignor to Jackson & Perkins Co. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the unique combination of tall and vigorous shoots on which the flowers are borne; distinctive thorns which have straight points and large, flat bases; exceptionally large flowers; a high-centered hybrid tea flower form, and a distinctive general color tonality of the flowers corresponding to light orange yellow, lightly overcast with grenadine pink.

No. 2001. Chrysanthemum plant. To Orville O. Dunham, Niles, Mich., assignor to George J. Ball, Inc., West Chicago, Ill. A new and distinct variety of chrysanthemum plant, characterized as to novelty by the strong pink to deep pink color of its blooms; the very double arrangement of its petals; the vigorous, more compact habit of growth; more abundant, larger foliage; the large size of its blooms, and the early, continuous and long blooming period.

No. 2002. Chrysanthemum plant. To Orville O. Dunham, assignor to George J. Ball, Inc. A new and distinct variety of chrysanthemum plant, characterized as to novelty by the moderate pink and strong orange color of its blooms; the fully double arrangement of its petals; the large size of its blooms; the tall, upright habit of growth, and the early, continuous and long blooming period.

No. 2003. Chrysanthemum plant. To Orville O. Dunham, assignor to George J. Ball, Inc. A new and distinct variety of chrysanthemum plant, characterized as to novelty by the strong reddish-orange color of its blooms; the very double arrangement of its petals; the vigorous, more compact habit of growth; the very large size of blooms, and the early, continuous and long blooming period.

All patents prior to plant patent No. 618 inclusive, have expired and become public property. Until the actual date of expiration, a plant patent excludes others than the patent holder from propagating as well as growing or selling the plant.

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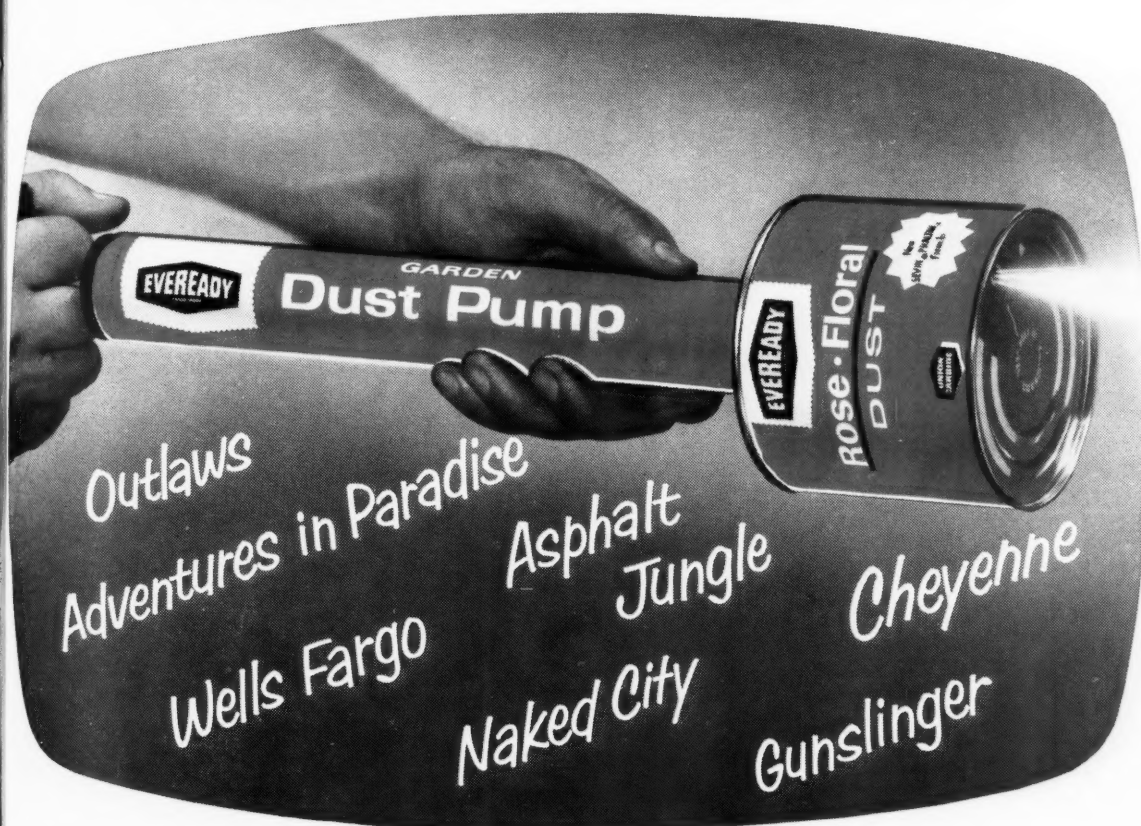
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FRENCH HYBRID LILACS and ASIATIC FLOWERING CRAB APPLES

LILAC VARIETIES

Pricing Basis

Sold Only in Multiples of 10

	Each
12 ins., L. O., field liners	\$0.50
15 ins., field liners .....	.65
18 ins., field liners .....	.70
24 ins., field liners .....	.85
30 ins., field liners	1.00

Following Lilac Varieties and Sizes Available:

- CHARLES JOLY**, double, bright crimson, 12 ins., 15 ins., 18 ins.
- CONGO**, single, wine-red, 18 ins.
- LUDWIG SPAETH**, single, deep red, 12 ins., 18 ins.
- MME. FLORENT STEPMAN**, single, white, 18 ins., 24 ins., 30 ins.
- PRESIDENT GREVY**, double, soft blue, 30 ins.
- THUNBERG**, double, mauve, late, 15 ins.
- AMI SCHOTT**, double, blue, 18 ins.
- CAPITAINE PERRAULT**, double, pink, 24 ins., 30 ins.
- MRS. W. E. MARSHALL**, single, purple, 18 ins.

CRAB APPLE VARIETIES

Pricing Basis

Sold Only in Multiples of 10

	Each
2 ft., field liners	\$0.55
3 ft., field liners .....	.75
4 ft., field liners	1.00

Following Malus Varieties and Sizes Available:

- ALMEY**, bright red flowers, red fruit, 2 ft.
- DOLGO**, white flowers, red fruit, 2 ft., 3 ft., 4 ft.
- HOPA**, single, pink bud, white flowers, red fruit, 3 ft., 4 ft.
- RED SILVER**, single, purplish-red flowers and fruit, 3 ft., 4 ft.
- SARGENT**, white flowers, dark red fruit, 18 ins., \$1.25 each; 2 ft., \$1.40 each.

Crab Apples and Lilacs are undoubtedly the two most popular blooming ornamentals adapted to northern climate and heavy soil conditions. Hill's have further screened the lists of available varieties and selected only those which will **produce** for the nurseryman. These varieties will grow well . . . these varieties will sell well.

The Lilacs are all 3-year-old, OWN ROOT. The Flowering Crab Apples are 2-year-old from piece root grafts, NOT BUDDED.

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